U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

01/27/2025

Well Name: DOUBLE STAMP FED COM

Well Location: T20S / R32E / SEC 14 / SESW / 32.5674377 / -103.7399692

County or Parish/State: LEA / NM

Well Number: 122H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM63016

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: CIVITAS PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2830694

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/12/2025

Time Sundry Submitted: 07:11

Date proposed operation will begin: 02/01/2025

Procedure Description: Civitas Permian Operating LLC (“CPO”) respectfully requests to amend the approved APD for the above-captioned well. CPO is proposing to amend the BHL and associated wellbore geometry. The proposed changes are as follows: 122H – Sundry ID #2830694 (30-025-54002) 1) SHL is unchanged. 2) Proposed KOP is Section 14, T20S, R32E @ 50’ FSL / 331’ FWL. 3) Proposed FTP is Section 14, T20S, R32E @ 100’ FSL / 331’ FWL. 4) Proposed LTP is Section 11, T20S, R32E @ 100’ FNL / 331’ FWL. 5) Proposed BHL is Section 11, T20S, R32E @ 5’ FNL / 331’ FWL. *Note – the Double Stamp FED COM #121H is also being sundried (ID #2830687) to account for these and other related changes. The location is currently under construction and first is anticipated in early February 2025. 122H – Sundry ID #2830694 (30-025-54002) 1) SHL is unchanged. 2) Proposed KOP is Section 14, T20S, R32E @ 50’ FSL / 331’ FWL. 3) Proposed FTP is Section 14, T20S, R32E @ 100’ FSL / 331’ FWL. 4) Proposed LTP is Section 11, T20S, R32E @ 100’ FNL / 331’ FWL. 5) Proposed BHL is Section 11, T20S, R32E @ 5’ FNL / 331’ FWL.

NOI Attachments

Procedure Description

APD_Drilling_Plan_Double_Stamp__122H_01.12.2025_20250112191103.pdf

Double_Stamp_Fed_Com_122H_Directional_Plan_01.12.2025_20250112191052.pdf

Double_Stamp_Fed_Com_122H_AC_01.12.2025_20250112191035.pdf

DOUBLE_STAMP_FED_COM_122H_C102_Revised_01.07.2025_20250112191003.pdf

Well Name: DOUBLE STAMP FED COM

Well Location: T20S / R32E / SEC 14 / SESW / 32.5674377 / -103.7399692

County or Parish/State: LEA / NM

Well Number: 122H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM63016

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: CIVITAS PERMIAN OPERATING LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: NATHAN BENNETT

Signed on: JAN 12, 2025 07:11 PM

Name: CIVITAS PERMIAN OPERATING LLC

Title: Director Permitting & Compliance

Street Address: 555 17TH STREET SUITE 3500

City: DENVER **State:** CO

Phone: (303) 312-8166

Email address: NBENNETT@CIVIRESOURCES.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: ALLISON MORENCY

BLM POC Title: Contractor WO

BLM POC Phone: 2029127157

BLM POC Email Address: amorency@blm.gov

Disposition: Approved

Disposition Date: 01/24/2025

Signature: Allison Morency

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

122H Sundry ID #2830694 (30-025-54002)

1) SHL is unchanged.

2) Proposed KOP is Section 14, T20S, R32E @ 50 FSL / 331 FWL.

3) Proposed FTP is Section 14, T20S, R32E @ 100 FSL / 331 FWL.

4) Proposed LTP is Section 11, T20S, R32E @ 100 FNL / 331 FWL.

5) Proposed BHL is Section 11, T20S, R32E @ 5 FNL / 331 FWL.

Location of Well

0. SHL: SESW / 549 FSL / 1694 FWL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.5674377 / LONG: -103.7399692 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 100 FSL / 1650 FWL / TWSP: 20S / RANGE: 32E / SECTION: 14 / LAT: 32.566205 / LONG: -103.740113 (TVD: 9797 feet, MD: 10154 feet)

BHL: NENW / 5 FNL / 1650 FWL / TWSP: 20S / RANGE: 32E / SECTION: 11 / LAT: 32.5949573 / LONG: -103.7401095 (TVD: 9753 feet, MD: 20089 feet)

Drilling Operations Plan
Double Stamp Fed Com #122H
Civitas Permian Operating, LLC
SHL 549' FSL & 1694' FWL, Sec. 14
BHL 5' FNL & 331' FWL, Sec. 11
T20S, R32E Lea County, NM

Elevation above Sea Level: 3531'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Rustler Anhydrite	1,495	1,495	Surface	Anhydrite
Top Salt	1,755	1,755	Salt	Salt
Yates	2,921	2,921	Sandstone	None
Capitan Reef Complex	3,561	3,561	Carbonate	None
DMG	4,630	4,665	Sandstone	None
Brushy Canyon	7,410	7,544	Sandstone	Hydrocarbons
Bone Spring Lime	7,735	7,882	Limestone	Hydrocarbons
Upper Avalon	7,790	7,941	Carbonate	Hydrocarbons
Middle Avalon	8,200	8,363	Carbonate	Hydrocarbons
Lower Avalon	8,535	8,702	Carbonate	Hydrocarbons
1st BS Sand	8,760	8,929	Sandstone	Hydrocarbons
2nd BS Carb	9,090	9,261	Carbonate	Hydrocarbons
2nd BS Sand	9,535	9,742	Sandstone	Hydrocarbons
KOP	9,154	9,322	Carbonate	Hydrocarbons
TD	9,691	20,150	Sandstone	Hydrocarbons

2. Notable Zones

2nd Bone Spring Sand is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):
At 20,150', a 5M pressure control system is required. The BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of 43 CFR 3172 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in 43 CFR 3172. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

BOP Test procedure will be as follows:

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After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 250 psi low, 2500 psi high.

Variance Requests:
Civitas requests a variance to run a multi-bowl speed head for setting the Intermediate and Production Strings. Civitas requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Civitas requests a variance to have the option of batch drilling this well with other wells on the same pad. If this well is batch drilled, after cementing a casing string, a 5M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad.

4. Casing & Cement

All Casing will be new.
Casing Design:

Section	Drilled Interval			Casing Size	Standard	Tapered	Casing Set Depths				Casing Details					
	Hole Size	Top	Btm				Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	20	0	1,520	16	API	No	0	1,520	0	1,520	J-55	75	BTC	1.13	1.15	1.6
1st Intermediate	14 3/4	1,520	2,971	11 3/4	API	No	0	2,971	0	2,821	J-55	47	BTC	1.13	1.15	1.6
2nd Intermediate	10 5/8	2,971	4,515	8 5/8	API	No	0	4,515	0	4,480	J-55	32	BTC	1.13	1.15	1.6
Production	7 7/8	4,515	20,150	5 1/2	NON API	No	0	20,150	0	9,691	P-110	20	Geoconn	1.13	1.15	1.6

Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	975	1.72	1677	13.5	75%	C	5% NCl + LCM
	Tail	1220	310	1.33	412	14.8	75%	C	5% NCl + LCM
1st Intermediate	Lead	0	474	2.72	1289	11.0	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	2271	229	1.72	394	13.5	30%	C	5% NaCl + LCM
2nd Intermediate	Lead	0	358	2.72	974	11.0	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	3515	159	1.72	273	13.5	30%	C	5% NaCl + LCM
Production	Lead	4315	276	3.38	932	10.5	20%	C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	8822	2261	1.44	3255	13.2	20%	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Mud Design:

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	1,520	FW Spud Mud	8.40	28	NC
1st Intermediate	1,520	2,971	Brine Water	10.00	27-30	NC
2nd Intermediate	2,971	4,515	FW/Cut Brine	9.00	27-30	NC
Production	4,515	20,150	FW/Cut Brine	9.00	27-30	NC

Electronic Pason mud monitor system complying with 43 CFR 3172 will be used. All necessary mud products (i.e., barite, pac) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.

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T20S, R32E Lea County, NM

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time.
- GR will be collected while drilling through the MWD tools from KOP to TD.
- A 2-person mud logging program will be used from KOP to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 4,564 psi. Expected bottom hole temperature is ≈165˚ F.

Civitas does not anticipate that there will be enough H2S from the surface to the 2nd Bone Spring Sand formations to meet the BLM's 43 CFR 3176 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Civitas has an H2S safety package on all wells and an "H2S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.

In the event H2S is encountered, it will be reported in a written format to the Division as stated in R-111-Q Section B.6.

8. Other Information

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 15 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.

A. **Anticollision**: While drilling a SF of 1.0 will be maintained for any active or inactive well through the salt interval. For any wells that have only inclination surveys, maintaining a 300' center-to-center will be done.
B. **Centralization:**
    a. **Surface:**
        i. One centralizer per joint across the shoe track
        ii. One centralizer per 2 joints from casing shoe to the top of FW zone
        iii. One centralizer per 3 joints to surface
    b. **Intermediate 1:**
        i. One centralizer per joint across the shoe tack
        ii. One centralizer per 3 joints to surface
        iii. **Cement placement simulation attached**
C. **Bradenhead Squeeze Post Frac:** This will be performed post frac with the following slurry:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Post Frac Bradenhead	Primary	2,870	239	1.72	411	13.5	0	C	5% NaCl + LCM

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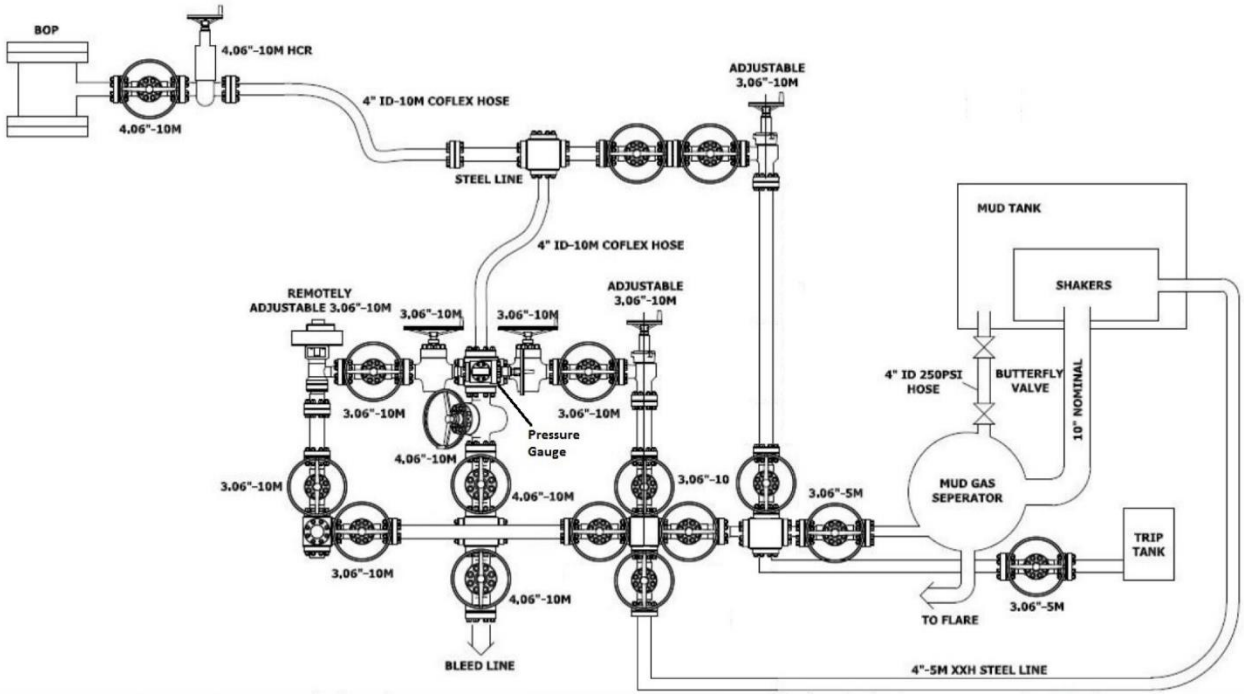
T20S, R32E Lea County, NM

10M Choke Layout



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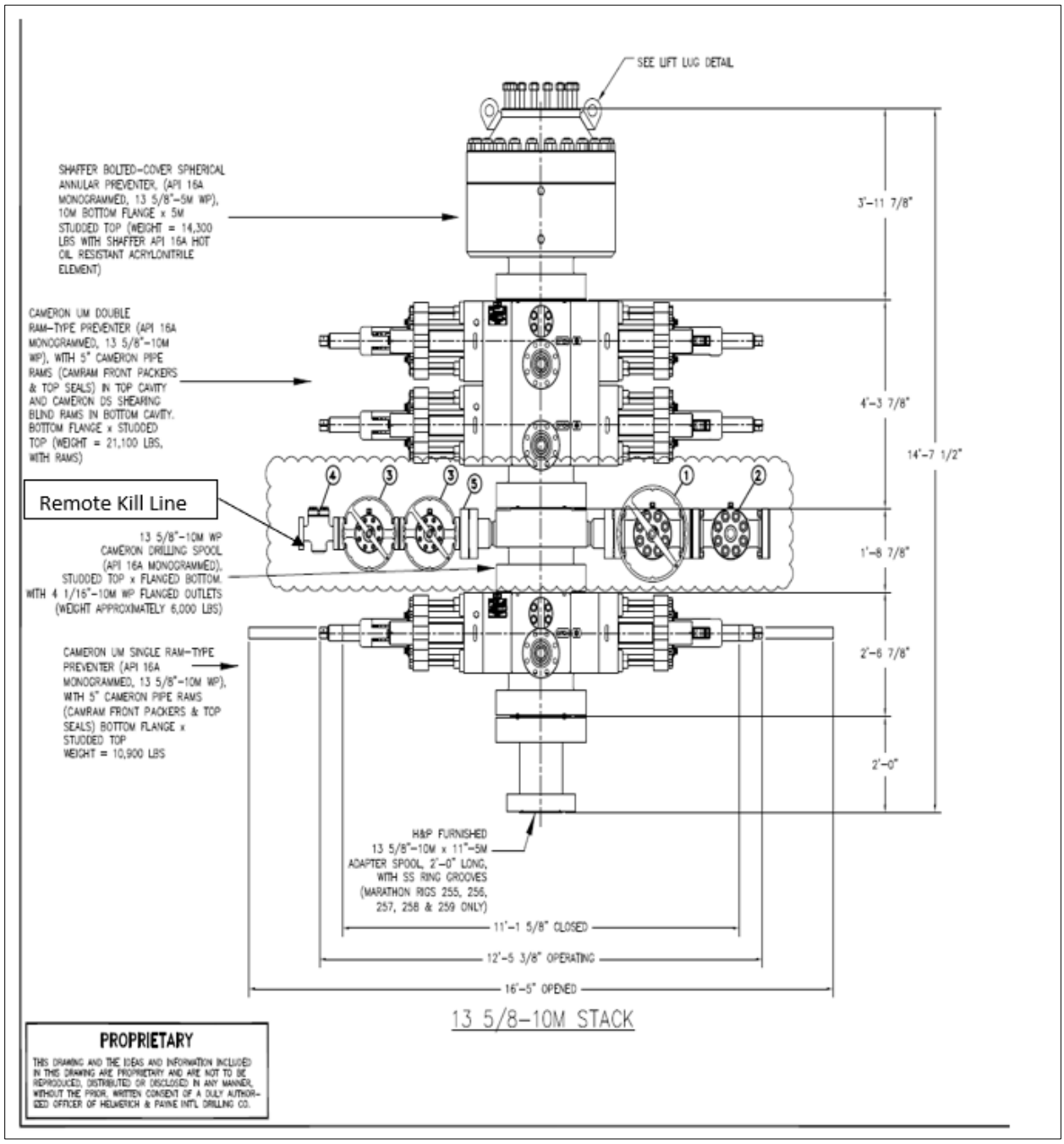
10,000 psi BOP Stack



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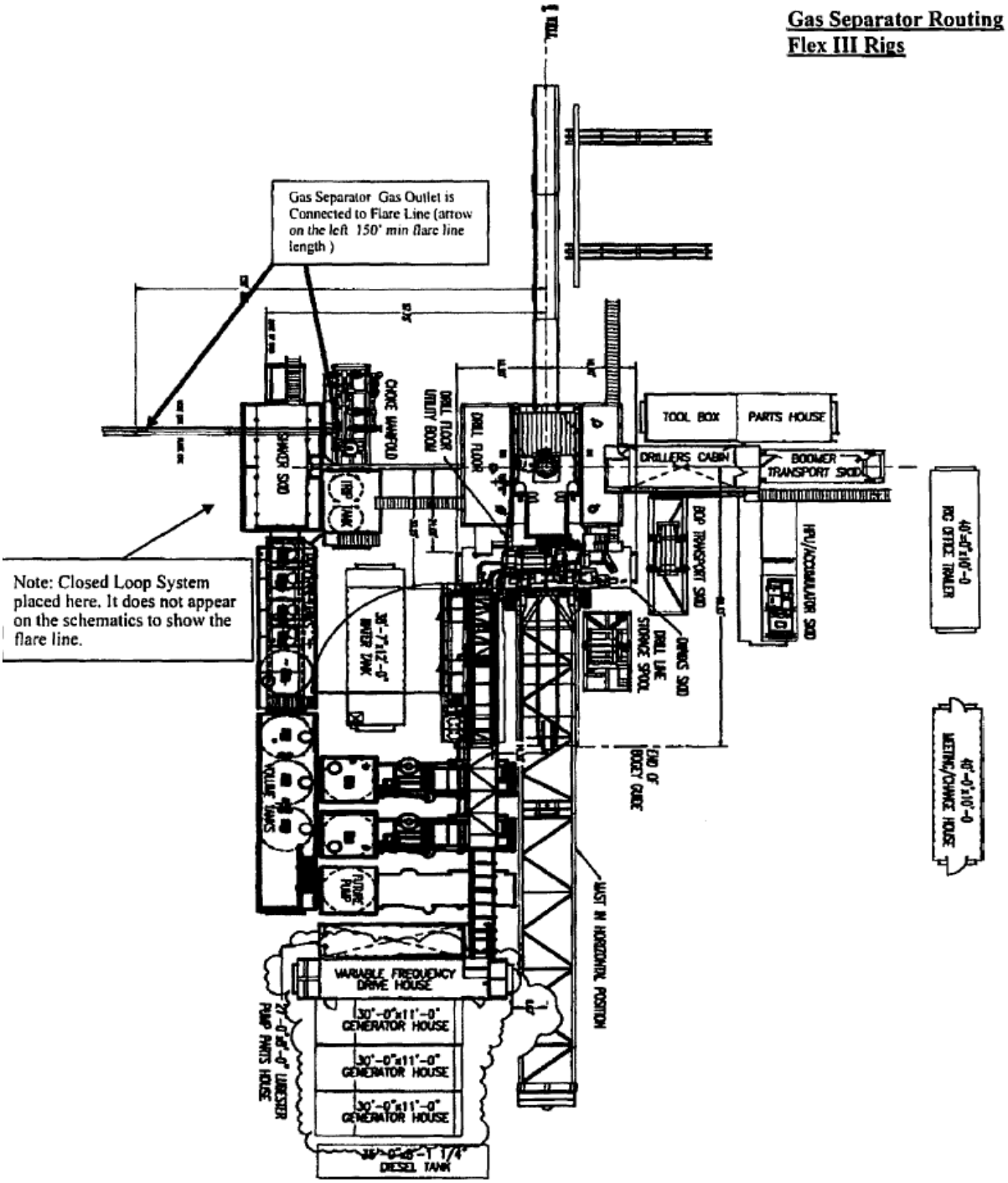

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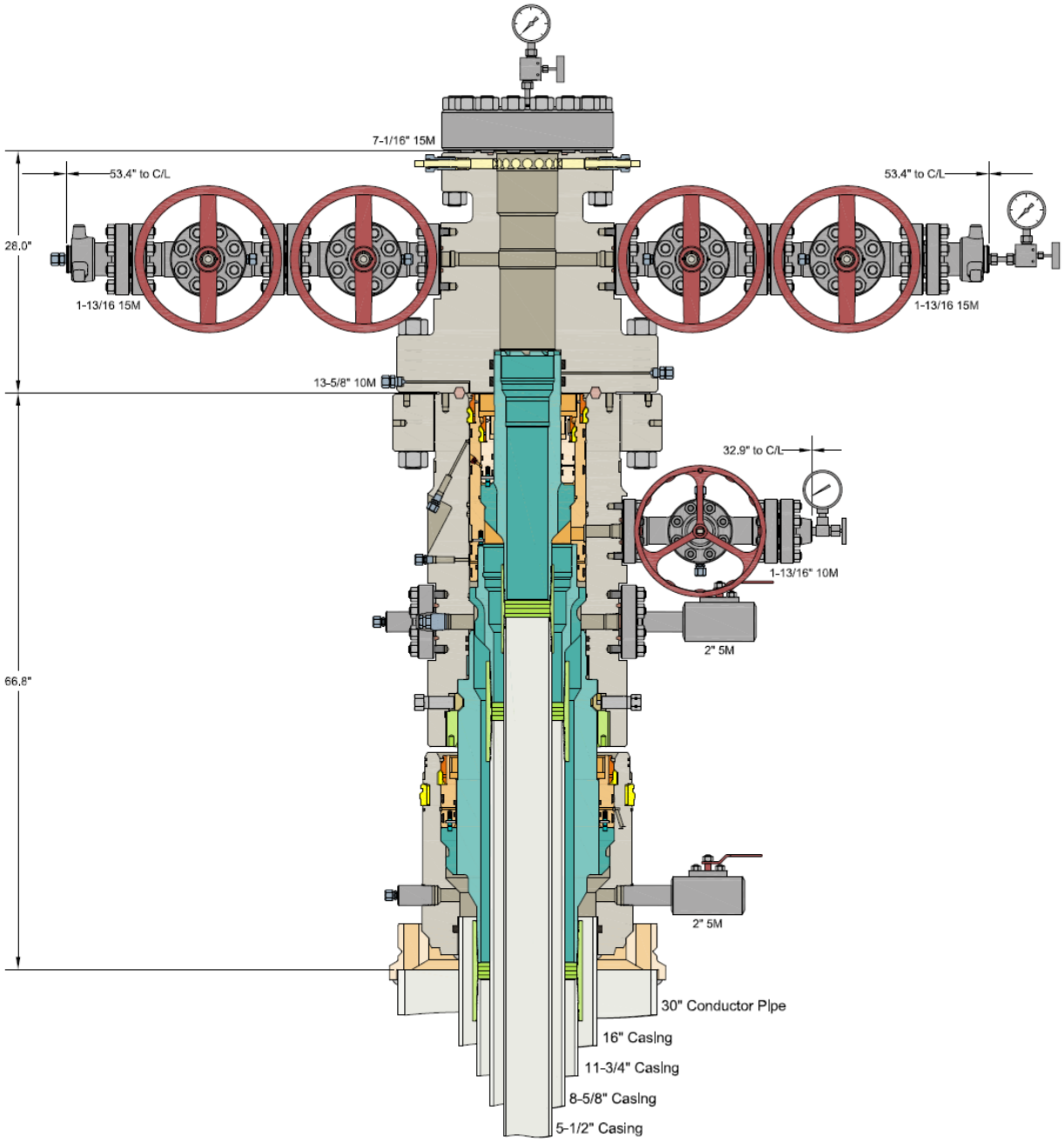
Multi-bowl Wellhead Design



CIVITAS

Civitas Permian Operating, LLC

Lea County, New Mexico (NAD 83)
Double Stamp Project
Double Stamp Fed Com 122H

Wellbore #1

Plan: Design #0.0

Standard Planning Report

10 January, 2025

MS Directional

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Project Lea County, New Mexico (NAD 83)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Double Stamp Project

Site Position:		**Northing:**	570,674.00 usft	**Latitude:**	32.567438
From:	Map	**Easting:**	724,133.00 usft	**Longitude:**	-103.739969
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Double Stamp Fed Com 122H

Well Position	**+N/-S**	0.00 usft	**Northing:**	570,674.00 usft	**Latitude:**	32.567438
	+E/-W	0.00 usft	**Easting:**	724,133.00 usft	**Longitude:**	-103.739969
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,531.00 usft
Grid Convergence:		0.319 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	1/10/2025	6.383	60.250	47,546.300

Design Design #0.0

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.69

Plan Survey Tool Program **Date** 1/10/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,150.35	Design #0.0 (Wellbore #1)	MWD+IFR1+SAG+FDIR OWSG MWD + IFR1 + Sag	

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
4,013.74	15.21	248.64	4,001.88	-48.72	-124.55	1.50	1.50	0.00	248.637	
8,154.97	15.21	248.64	7,998.12	-444.39	-1,136.13	0.00	0.00	0.00	0.000	
9,168.71	0.00	0.00	9,000.00	-493.10	-1,260.67	1.50	-1.50	0.00	180.000	
9,322.71	0.00	0.00	9,154.00	-493.10	-1,260.67	0.00	0.00	0.00	0.000	
10,224.71	90.20	352.10	9,726.95	76.40	-1,339.70	10.00	10.00	0.00	352.100	
10,604.32	90.20	359.69	9,725.61	454.76	-1,366.85	2.00	0.00	2.00	89.951	
20,150.35	90.20	359.69	9,691.51	10,000.59	-1,418.11	0.00	0.00	0.00	0.000	PBHL - Double Star

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,495.70	0.00	0.00	1,495.70	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,756.00	0.00	0.00	1,756.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,921.00	0.00	0.00	2,921.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 1.50°/100' Build									
3,100.00	1.50	248.64	3,099.99	-0.48	-1.22	-0.47	1.50	1.50	0.00
3,200.00	3.00	248.64	3,199.91	-1.91	-4.88	-1.88	1.50	1.50	0.00
3,300.00	4.50	248.64	3,299.69	-4.29	-10.97	-4.23	1.50	1.50	0.00
3,400.00	6.00	248.64	3,399.27	-7.62	-19.49	-7.52	1.50	1.50	0.00
3,500.00	7.50	248.64	3,498.57	-11.90	-30.43	-11.74	1.50	1.50	0.00
3,561.52	8.42	248.64	3,559.50	-15.01	-38.37	-14.80	1.50	1.50	0.00
Capitan Reef Complex									
3,600.00	9.00	248.64	3,597.54	-17.13	-43.80	-16.89	1.50	1.50	0.00
3,700.00	10.50	248.64	3,696.09	-23.30	-59.57	-22.98	1.50	1.50	0.00
3,800.00	12.00	248.64	3,794.16	-30.41	-77.74	-29.98	1.50	1.50	0.00
3,900.00	13.50	248.64	3,891.70	-38.44	-98.29	-37.91	1.50	1.50	0.00
4,000.00	15.00	248.64	3,988.62	-47.41	-121.21	-46.75	1.50	1.50	0.00
4,013.74	15.21	248.64	4,001.88	-48.72	-124.55	-48.04	1.50	1.50	0.00
Hold 15.21° Inc, 248.64° Azm									
4,100.00	15.21	248.64	4,085.12	-56.96	-145.62	-56.17	0.00	0.00	0.00

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,200.00	15.21	248.64	4,181.62	-66.51	-170.04	-65.59	0.00	0.00	0.00
4,300.00	15.21	248.64	4,278.12	-76.07	-194.47	-75.01	0.00	0.00	0.00
4,400.00	15.21	248.64	4,374.62	-85.62	-218.90	-84.43	0.00	0.00	0.00
4,500.00	15.21	248.64	4,471.12	-95.17	-243.32	-93.86	0.00	0.00	0.00
4,600.00	15.21	248.64	4,567.62	-104.73	-267.75	-103.28	0.00	0.00	0.00
4,665.37	15.21	248.64	4,630.70	-110.98	-283.72	-109.44	0.00	0.00	0.00
DMG									
4,700.00	15.21	248.64	4,664.11	-114.28	-292.18	-112.70	0.00	0.00	0.00
4,800.00	15.21	248.64	4,760.61	-123.84	-316.61	-122.12	0.00	0.00	0.00
4,900.00	15.21	248.64	4,857.11	-133.39	-341.03	-131.55	0.00	0.00	0.00
5,000.00	15.21	248.64	4,953.61	-142.95	-365.46	-140.97	0.00	0.00	0.00
5,100.00	15.21	248.64	5,050.11	-152.50	-389.89	-150.39	0.00	0.00	0.00
5,200.00	15.21	248.64	5,146.61	-162.06	-414.31	-159.81	0.00	0.00	0.00
5,300.00	15.21	248.64	5,243.11	-171.61	-438.74	-169.23	0.00	0.00	0.00
5,400.00	15.21	248.64	5,339.61	-181.17	-463.17	-178.66	0.00	0.00	0.00
5,500.00	15.21	248.64	5,436.11	-190.72	-487.60	-188.08	0.00	0.00	0.00
5,600.00	15.21	248.64	5,532.60	-200.27	-512.02	-197.50	0.00	0.00	0.00
5,700.00	15.21	248.64	5,629.10	-209.83	-536.45	-206.92	0.00	0.00	0.00
5,800.00	15.21	248.64	5,725.60	-219.38	-560.88	-216.35	0.00	0.00	0.00
5,900.00	15.21	248.64	5,822.10	-228.94	-585.30	-225.77	0.00	0.00	0.00
6,000.00	15.21	248.64	5,918.60	-238.49	-609.73	-235.19	0.00	0.00	0.00
6,100.00	15.21	248.64	6,015.10	-248.05	-634.16	-244.61	0.00	0.00	0.00
6,200.00	15.21	248.64	6,111.60	-257.60	-658.59	-254.03	0.00	0.00	0.00
6,300.00	15.21	248.64	6,208.10	-267.16	-683.01	-263.46	0.00	0.00	0.00
6,400.00	15.21	248.64	6,304.59	-276.71	-707.44	-272.88	0.00	0.00	0.00
6,500.00	15.21	248.64	6,401.09	-286.26	-731.87	-282.30	0.00	0.00	0.00
6,600.00	15.21	248.64	6,497.59	-295.82	-756.29	-291.72	0.00	0.00	0.00
6,700.00	15.21	248.64	6,594.09	-305.37	-780.72	-301.14	0.00	0.00	0.00
6,800.00	15.21	248.64	6,690.59	-314.93	-805.15	-310.57	0.00	0.00	0.00
6,900.00	15.21	248.64	6,787.09	-324.48	-829.58	-319.99	0.00	0.00	0.00
7,000.00	15.21	248.64	6,883.59	-334.04	-854.00	-329.41	0.00	0.00	0.00
7,100.00	15.21	248.64	6,980.09	-343.59	-878.43	-338.83	0.00	0.00	0.00
7,200.00	15.21	248.64	7,076.59	-353.15	-902.86	-348.26	0.00	0.00	0.00
7,300.00	15.21	248.64	7,173.08	-362.70	-927.28	-357.68	0.00	0.00	0.00
7,400.00	15.21	248.64	7,269.58	-372.25	-951.71	-367.10	0.00	0.00	0.00
7,500.00	15.21	248.64	7,366.08	-381.81	-976.14	-376.52	0.00	0.00	0.00
7,544.68	15.21	248.64	7,409.20	-386.08	-987.05	-380.73	0.00	0.00	0.00
Brushy Canyon									
7,600.00	15.21	248.64	7,462.58	-391.36	-1,000.57	-385.94	0.00	0.00	0.00
7,700.00	15.21	248.64	7,559.08	-400.92	-1,024.99	-395.37	0.00	0.00	0.00
7,800.00	15.21	248.64	7,655.58	-410.47	-1,049.42	-404.79	0.00	0.00	0.00
7,881.89	15.21	248.64	7,734.60	-418.30	-1,069.42	-412.50	0.00	0.00	0.00
Bone Spring									
7,900.00	15.21	248.64	7,752.08	-420.03	-1,073.85	-414.21	0.00	0.00	0.00
7,941.48	15.21	248.64	7,792.10	-423.99	-1,083.98	-418.12	0.00	0.00	0.00
Upper Avalon									
8,000.00	15.21	248.64	7,848.58	-429.58	-1,098.27	-423.63	0.00	0.00	0.00
8,100.00	15.21	248.64	7,945.08	-439.14	-1,122.70	-433.06	0.00	0.00	0.00
8,154.97	15.21	248.64	7,998.12	-444.39	-1,136.13	-438.23	0.00	0.00	0.00
Begin 1.50°/100' Drop									
8,200.00	14.53	248.64	8,041.64	-448.60	-1,146.89	-442.39	1.50	-1.50	0.00
8,300.00	13.03	248.64	8,138.76	-457.27	-1,169.07	-450.94	1.50	-1.50	0.00
8,363.05	12.08	248.64	8,200.30	-462.27	-1,181.84	-455.87	1.50	-1.50	0.00

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Middle Avalon									
8,400.00	11.53	248.64	8,236.47	-465.02	-1,188.88	-458.58	1.50	-1.50	0.00
8,500.00	10.03	248.64	8,334.70	-471.84	-1,206.30	-465.30	1.50	-1.50	0.00
8,600.00	8.53	248.64	8,433.39	-477.71	-1,221.32	-471.09	1.50	-1.50	0.00
8,700.00	7.03	248.64	8,532.47	-482.64	-1,233.93	-475.96	1.50	-1.50	0.00
8,702.15	7.00	248.64	8,534.60	-482.74	-1,234.17	-476.05	1.50	-1.50	0.00
Lower Avalon									
8,800.00	5.53	248.64	8,631.86	-486.63	-1,244.11	-479.89	1.50	-1.50	0.00
8,900.00	4.03	248.64	8,731.51	-489.66	-1,251.88	-482.88	1.50	-1.50	0.00
8,929.55	3.59	248.64	8,761.00	-490.38	-1,253.70	-483.59	1.50	-1.50	0.00
1st Bone Spring Sand									
9,000.00	2.53	248.64	8,831.35	-491.75	-1,257.21	-484.94	1.50	-1.50	0.00
9,100.00	1.03	248.64	8,931.30	-492.88	-1,260.10	-486.05	1.50	-1.50	0.00
9,168.71	0.00	0.00	9,000.00	-493.10	-1,260.67	-486.28	1.50	-1.50	0.00
Begin Vertical Hold									
9,200.00	0.00	0.00	9,031.29	-493.10	-1,260.67	-486.28	0.00	0.00	0.00
9,261.01	0.00	0.00	9,092.30	-493.10	-1,260.67	-486.28	0.00	0.00	0.00
2nd Bone Spring Carb									
9,300.00	0.00	0.00	9,131.29	-493.10	-1,260.67	-486.28	0.00	0.00	0.00
9,322.71	0.00	0.00	9,154.00	-493.10	-1,260.67	-486.28	0.00	0.00	0.00
Begin 10.00°/100' Build									
9,350.00	2.73	352.10	9,181.28	-492.46	-1,260.76	-485.63	10.00	10.00	0.00
9,400.00	7.73	352.10	9,231.06	-487.95	-1,261.39	-481.12	10.00	10.00	0.00
9,450.00	12.73	352.10	9,280.25	-479.15	-1,262.61	-472.32	10.00	10.00	0.00
9,500.00	17.73	352.10	9,328.48	-466.15	-1,264.41	-459.30	10.00	10.00	0.00
9,550.00	22.73	352.10	9,375.38	-449.03	-1,266.79	-442.17	10.00	10.00	0.00
9,600.00	27.73	352.10	9,420.59	-427.93	-1,269.72	-421.05	10.00	10.00	0.00
9,650.00	32.73	352.10	9,463.78	-403.00	-1,273.18	-396.11	10.00	10.00	0.00
9,700.00	37.73	352.10	9,504.61	-374.44	-1,277.14	-367.53	10.00	10.00	0.00
9,742.87	42.02	352.10	9,537.50	-347.23	-1,280.92	-340.29	10.00	10.00	0.00
2nd Bone Spring Sand									
9,750.00	42.73	352.10	9,542.77	-342.47	-1,281.58	-335.53	10.00	10.00	0.00
9,800.00	47.73	352.10	9,577.97	-307.32	-1,286.45	-300.35	10.00	10.00	0.00
9,850.00	52.73	352.10	9,609.95	-269.26	-1,291.73	-262.27	10.00	10.00	0.00
9,900.00	57.73	352.10	9,638.46	-228.59	-1,297.38	-221.57	10.00	10.00	0.00
9,950.00	62.73	352.10	9,663.27	-185.62	-1,303.34	-178.56	10.00	10.00	0.00
10,000.00	67.73	352.10	9,684.22	-140.66	-1,309.58	-133.58	10.00	10.00	0.00
10,050.00	72.73	352.10	9,701.12	-94.07	-1,316.04	-86.95	10.00	10.00	0.00
10,100.00	77.73	352.10	9,713.87	-46.20	-1,322.69	-39.04	10.00	10.00	0.00
10,150.00	82.73	352.10	9,722.35	2.59	-1,329.46	9.78	10.00	10.00	0.00
10,200.00	87.73	352.10	9,726.51	51.93	-1,336.30	59.16	10.00	10.00	0.00
10,224.71	90.20	352.10	9,726.95	76.40	-1,339.70	83.65	10.00	10.00	0.00
Hold 90.20° Inc, Begin 2°/100' Turn									
10,300.00	90.20	353.61	9,726.69	151.10	-1,349.07	158.40	2.00	0.00	2.00
10,400.00	90.20	355.61	9,726.34	250.65	-1,358.47	258.00	2.00	0.00	2.00
10,500.00	90.20	357.61	9,725.98	350.47	-1,364.39	357.85	2.00	0.00	2.00
10,604.32	90.20	359.69	9,725.61	454.76	-1,366.85	462.15	2.00	0.00	2.00
Hold 359.69° Azm									
10,700.00	90.20	359.69	9,725.27	550.44	-1,367.36	557.83	0.00	0.00	0.00
10,800.00	90.20	359.69	9,724.91	650.43	-1,367.90	657.82	0.00	0.00	0.00
10,900.00	90.20	359.69	9,724.56	750.43	-1,368.43	757.82	0.00	0.00	0.00
11,000.00	90.20	359.69	9,724.20	850.43	-1,368.97	857.82	0.00	0.00	0.00
11,100.00	90.20	359.69	9,723.84	950.43	-1,369.51	957.82	0.00	0.00	0.00

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,200.00	90.20	359.69	9,723.48	1,050.42	-1,370.05	1,057.82	0.00	0.00	0.00
11,300.00	90.20	359.69	9,723.13	1,150.42	-1,370.58	1,157.82	0.00	0.00	0.00
11,400.00	90.20	359.69	9,722.77	1,250.42	-1,371.12	1,257.82	0.00	0.00	0.00
11,500.00	90.20	359.69	9,722.41	1,350.42	-1,371.66	1,357.82	0.00	0.00	0.00
11,600.00	90.20	359.69	9,722.06	1,450.42	-1,372.19	1,457.82	0.00	0.00	0.00
11,700.00	90.20	359.69	9,721.70	1,550.41	-1,372.73	1,557.82	0.00	0.00	0.00
11,800.00	90.20	359.69	9,721.34	1,650.41	-1,373.27	1,657.82	0.00	0.00	0.00
11,900.00	90.20	359.69	9,720.98	1,750.41	-1,373.80	1,757.82	0.00	0.00	0.00
12,000.00	90.20	359.69	9,720.63	1,850.41	-1,374.34	1,857.82	0.00	0.00	0.00
12,100.00	90.20	359.69	9,720.27	1,950.41	-1,374.88	1,957.82	0.00	0.00	0.00
12,200.00	90.20	359.69	9,719.91	2,050.40	-1,375.42	2,057.82	0.00	0.00	0.00
12,300.00	90.20	359.69	9,719.55	2,150.40	-1,375.95	2,157.81	0.00	0.00	0.00
12,400.00	90.20	359.69	9,719.20	2,250.40	-1,376.49	2,257.81	0.00	0.00	0.00
12,500.00	90.20	359.69	9,718.84	2,350.40	-1,377.03	2,357.81	0.00	0.00	0.00
12,600.00	90.20	359.69	9,718.48	2,450.40	-1,377.56	2,457.81	0.00	0.00	0.00
12,700.00	90.20	359.69	9,718.13	2,550.39	-1,378.10	2,557.81	0.00	0.00	0.00
12,800.00	90.20	359.69	9,717.77	2,650.39	-1,378.64	2,657.81	0.00	0.00	0.00
12,900.00	90.20	359.69	9,717.41	2,750.39	-1,379.18	2,757.81	0.00	0.00	0.00
13,000.00	90.20	359.69	9,717.05	2,850.39	-1,379.71	2,857.81	0.00	0.00	0.00
13,100.00	90.20	359.69	9,716.70	2,950.39	-1,380.25	2,957.81	0.00	0.00	0.00
13,200.00	90.20	359.69	9,716.34	3,050.38	-1,380.79	3,057.81	0.00	0.00	0.00
13,300.00	90.20	359.69	9,715.98	3,150.38	-1,381.32	3,157.81	0.00	0.00	0.00
13,400.00	90.20	359.69	9,715.62	3,250.38	-1,381.86	3,257.81	0.00	0.00	0.00
13,500.00	90.20	359.69	9,715.27	3,350.38	-1,382.40	3,357.81	0.00	0.00	0.00
13,600.00	90.20	359.69	9,714.91	3,450.37	-1,382.93	3,457.81	0.00	0.00	0.00
13,700.00	90.20	359.69	9,714.55	3,550.37	-1,383.47	3,557.81	0.00	0.00	0.00
13,800.00	90.20	359.69	9,714.20	3,650.37	-1,384.01	3,657.81	0.00	0.00	0.00
13,900.00	90.20	359.69	9,713.84	3,750.37	-1,384.55	3,757.80	0.00	0.00	0.00
14,000.00	90.20	359.69	9,713.48	3,850.37	-1,385.08	3,857.80	0.00	0.00	0.00
14,100.00	90.20	359.69	9,713.12	3,950.36	-1,385.62	3,957.80	0.00	0.00	0.00
14,200.00	90.20	359.69	9,712.77	4,050.36	-1,386.16	4,057.80	0.00	0.00	0.00
14,300.00	90.20	359.69	9,712.41	4,150.36	-1,386.69	4,157.80	0.00	0.00	0.00
14,400.00	90.20	359.69	9,712.05	4,250.36	-1,387.23	4,257.80	0.00	0.00	0.00
14,500.00	90.20	359.69	9,711.70	4,350.36	-1,387.77	4,357.80	0.00	0.00	0.00
14,600.00	90.20	359.69	9,711.34	4,450.35	-1,388.31	4,457.80	0.00	0.00	0.00
14,700.00	90.20	359.69	9,710.98	4,550.35	-1,388.84	4,557.80	0.00	0.00	0.00
14,800.00	90.20	359.69	9,710.62	4,650.35	-1,389.38	4,657.80	0.00	0.00	0.00
14,900.00	90.20	359.69	9,710.27	4,750.35	-1,389.92	4,757.80	0.00	0.00	0.00
15,000.00	90.20	359.69	9,709.91	4,850.35	-1,390.45	4,857.80	0.00	0.00	0.00
15,100.00	90.20	359.69	9,709.55	4,950.34	-1,390.99	4,957.80	0.00	0.00	0.00
15,200.00	90.20	359.69	9,709.19	5,050.34	-1,391.53	5,057.80	0.00	0.00	0.00
15,300.00	90.20	359.69	9,708.84	5,150.34	-1,392.06	5,157.80	0.00	0.00	0.00
15,400.00	90.20	359.69	9,708.48	5,250.34	-1,392.60	5,257.80	0.00	0.00	0.00
15,500.00	90.20	359.69	9,708.12	5,350.34	-1,393.14	5,357.79	0.00	0.00	0.00
15,600.00	90.20	359.69	9,707.77	5,450.33	-1,393.68	5,457.79	0.00	0.00	0.00
15,700.00	90.20	359.69	9,707.41	5,550.33	-1,394.21	5,557.79	0.00	0.00	0.00
15,800.00	90.20	359.69	9,707.05	5,650.33	-1,394.75	5,657.79	0.00	0.00	0.00
15,900.00	90.20	359.69	9,706.69	5,750.33	-1,395.29	5,757.79	0.00	0.00	0.00
16,000.00	90.20	359.69	9,706.34	5,850.32	-1,395.82	5,857.79	0.00	0.00	0.00
16,100.00	90.20	359.69	9,705.98	5,950.32	-1,396.36	5,957.79	0.00	0.00	0.00
16,200.00	90.20	359.69	9,705.62	6,050.32	-1,396.90	6,057.79	0.00	0.00	0.00
16,300.00	90.20	359.69	9,705.27	6,150.32	-1,397.44	6,157.79	0.00	0.00	0.00
16,400.00	90.20	359.69	9,704.91	6,250.32	-1,397.97	6,257.79	0.00	0.00	0.00
16,500.00	90.20	359.69	9,704.55	6,350.31	-1,398.51	6,357.79	0.00	0.00	0.00

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,600.00	90.20	359.69	9,704.19	6,450.31	-1,399.05	6,457.79	0.00	0.00	0.00
16,700.00	90.20	359.69	9,703.84	6,550.31	-1,399.58	6,557.79	0.00	0.00	0.00
16,800.00	90.20	359.69	9,703.48	6,650.31	-1,400.12	6,657.79	0.00	0.00	0.00
16,900.00	90.20	359.69	9,703.12	6,750.31	-1,400.66	6,757.79	0.00	0.00	0.00
17,000.00	90.20	359.69	9,702.76	6,850.30	-1,401.20	6,857.79	0.00	0.00	0.00
17,100.00	90.20	359.69	9,702.41	6,950.30	-1,401.73	6,957.78	0.00	0.00	0.00
17,200.00	90.20	359.69	9,702.05	7,050.30	-1,402.27	7,057.78	0.00	0.00	0.00
17,300.00	90.20	359.69	9,701.69	7,150.30	-1,402.81	7,157.78	0.00	0.00	0.00
17,400.00	90.20	359.69	9,701.34	7,250.30	-1,403.34	7,257.78	0.00	0.00	0.00
17,500.00	90.20	359.69	9,700.98	7,350.29	-1,403.88	7,357.78	0.00	0.00	0.00
17,600.00	90.20	359.69	9,700.62	7,450.29	-1,404.42	7,457.78	0.00	0.00	0.00
17,700.00	90.20	359.69	9,700.26	7,550.29	-1,404.95	7,557.78	0.00	0.00	0.00
17,800.00	90.20	359.69	9,699.91	7,650.29	-1,405.49	7,657.78	0.00	0.00	0.00
17,900.00	90.20	359.69	9,699.55	7,750.29	-1,406.03	7,757.78	0.00	0.00	0.00
18,000.00	90.20	359.69	9,699.19	7,850.28	-1,406.57	7,857.78	0.00	0.00	0.00
18,100.00	90.20	359.69	9,698.83	7,950.28	-1,407.10	7,957.78	0.00	0.00	0.00
18,200.00	90.20	359.69	9,698.48	8,050.28	-1,407.64	8,057.78	0.00	0.00	0.00
18,300.00	90.20	359.69	9,698.12	8,150.28	-1,408.18	8,157.78	0.00	0.00	0.00
18,400.00	90.20	359.69	9,697.76	8,250.28	-1,408.71	8,257.78	0.00	0.00	0.00
18,500.00	90.20	359.69	9,697.41	8,350.27	-1,409.25	8,357.78	0.00	0.00	0.00
18,600.00	90.20	359.69	9,697.05	8,450.27	-1,409.79	8,457.77	0.00	0.00	0.00
18,700.00	90.20	359.69	9,696.69	8,550.27	-1,410.33	8,557.77	0.00	0.00	0.00
18,800.00	90.20	359.69	9,696.33	8,650.27	-1,410.86	8,657.77	0.00	0.00	0.00
18,900.00	90.20	359.69	9,695.98	8,750.26	-1,411.40	8,757.77	0.00	0.00	0.00
19,000.00	90.20	359.69	9,695.62	8,850.26	-1,411.94	8,857.77	0.00	0.00	0.00
19,100.00	90.20	359.69	9,695.26	8,950.26	-1,412.47	8,957.77	0.00	0.00	0.00
19,200.00	90.20	359.69	9,694.91	9,050.26	-1,413.01	9,057.77	0.00	0.00	0.00
19,300.00	90.20	359.69	9,694.55	9,150.26	-1,413.55	9,157.77	0.00	0.00	0.00
19,400.00	90.20	359.69	9,694.19	9,250.25	-1,414.08	9,257.77	0.00	0.00	0.00
19,500.00	90.20	359.69	9,693.83	9,350.25	-1,414.62	9,357.77	0.00	0.00	0.00
19,600.00	90.20	359.69	9,693.48	9,450.25	-1,415.16	9,457.77	0.00	0.00	0.00
19,700.00	90.20	359.69	9,693.12	9,550.25	-1,415.70	9,557.77	0.00	0.00	0.00
19,800.00	90.20	359.69	9,692.76	9,650.25	-1,416.23	9,657.77	0.00	0.00	0.00
19,900.00	90.20	359.69	9,692.40	9,750.24	-1,416.77	9,757.77	0.00	0.00	0.00
20,000.00	90.20	359.69	9,692.05	9,850.24	-1,417.31	9,857.77	0.00	0.00	0.00
20,100.00	90.20	359.69	9,691.69	9,950.24	-1,417.84	9,957.77	0.00	0.00	0.00
20,150.35	90.20	359.69	9,691.51	10,000.59	-1,418.11	10,008.11	0.00	0.00	0.00
PBHL									

CIVITAS

MS Directional
Planning Report

MS Directional

Database:	TRG_EDMConroe	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Company:	Civitas Permian Operating, LLC	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Project:	Lea County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site:	Double Stamp Project	**North Reference:**	Grid
Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #0.0		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Double Stamp - plan hits target center - Point	0.00	0.00	9,154.00	-493.10	-1,260.67	570,180.90	722,872.32	32.566102	-103.744070
FTP - Double Stamp F - plan misses target center by 94.63usft at 9542.67usft MD (9368.59 TVD, -451.79 N, -1266.41 E) - Point	0.00	0.00	9,364.41	-453.45	-1,360.93	570,220.55	722,772.07	32.566212	-103.744395
PBHL - Double Stamp - plan hits target center - Point	0.00	0.00	9,691.51	10,000.59	-1,418.11	580,674.59	722,714.88	32.594947	-103.744392

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,495.70	1,495.70	Rustler			
1,756.00	1,756.00	Salado			
2,921.00	2,921.00	Yates			
3,561.52	3,559.50	Capitan Reef Complex			
4,665.37	4,630.70	DMG			
7,544.68	7,409.20	Brushy Canyon			
7,881.89	7,734.60	Bone Spring			
7,941.48	7,792.10	Upper Avalon			
8,363.05	8,200.30	Middle Avalon			
8,702.15	8,534.60	Lower Avalon			
8,929.55	8,761.00	1st Bone Spring Sand			
9,261.01	9,092.30	2nd Bone Spring Carb			
9,742.87	9,537.50	2nd Bone Spring Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,000.00	3,000.00	0.00	0.00	KOP, 1.50°/100' Build
4,013.74	4,001.88	-48.72	-124.55	Hold 15.21° Inc, 248.64° Azm
8,154.97	7,998.12	-444.39	-1,136.13	Begin 1.50°/100' Drop
9,168.71	9,000.00	-493.10	-1,260.67	Begin Vertical Hold
9,322.71	9,154.00	-493.10	-1,260.67	Begin 10.00°/100' Build
10,224.71	9,726.95	76.40	-1,339.70	Hold 90.20° Inc, Begin 2°/100' Turn
10,604.32	9,725.61	454.76	-1,366.85	Hold 359.69° Azm
20,150.35	9,691.51	10,000.59	-1,418.11	PBHL

Civitas Permian Operating, LLC

Lea County, New Mexico (NAD 83)
Double Stamp Project
Double Stamp Fed Com 122H

Wellbore #1
Design #0.0

Anticollision Report

10 January, 2025

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Reference Design #0.0

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,000.00usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 1/10/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	20,150.35	Design #0.0 (Wellbore #1)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Double Stamp - Offsets (NAD 83)						
Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from	5,000.00	4,887.34	302.65	268.36	8.825	SF
Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from	5,019.00	4,898.39	302.34	268.08	8.826	CC, ES
Belco AIA Federal 2H - Wellbore #1 - Surveys	5,018.04	4,897.00	302.30	282.33	15.135	CC, ES
Belco AIA Federal 2H - Wellbore #1 - Surveys	5,100.00	4,939.95	308.44	287.92	15.034	SF
Belco AIA Federal 3H - Wellbore #1 - Surveys						Out of range
Belco AIA Federal 4H - Wellbore #1 - Surveys	5,031.12	4,999.06	69.20	37.32	2.171	CC, ES, SF
Queenie 15 1H - Wellbore #1 - Surveys	4,064.73	3,841.00	888.39	864.49	37.176	CC, ES
Queenie 15 1H - Wellbore #1 - Surveys	4,100.00	3,859.90	888.53	864.53	37.030	SF
Double Stamp E2-1 (113H,116H,123H,124H,126H)						
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	1,165.99	1,167.99	1,084.52	1,076.34	132.636	CC
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	1,300.00	1,293.98	1,084.89	1,075.80	119.317	ES
Double Stamp Fed Com 113H - Wellbore #1 - Design #1	6,200.00	6,021.37	1,987.59	1,944.68	46.323	SF
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	1,765.99	1,767.99	1,109.51	1,097.03	88.915	CC
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	1,800.00	1,800.00	1,109.51	1,096.80	87.260	ES
Double Stamp Fed Com 116H - Wellbore #1 - Design #1	3,500.00	3,141.30	1,407.76	1,385.12	62.174	SF
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	1,165.99	1,167.99	1,084.23	1,076.05	132.600	CC
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	1,300.00	1,296.54	1,084.48	1,075.38	119.165	ES
Double Stamp Fed Com 123H - Wellbore #1 - Design #1	6,500.00	6,414.08	1,976.58	1,931.04	43.405	SF
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	1,165.99	1,167.99	1,189.23	1,181.05	145.442	CC
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	1,200.00	1,200.00	1,189.23	1,180.81	141.351	ES
Double Stamp Fed Com 124H - Wellbore #1 - Design #1	4,700.00	4,353.52	1,975.96	1,944.65	63.110	SF
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	465.99	467.99	1,109.23	1,106.07	351.239	CC
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	600.00	588.82	1,109.83	1,105.77	273.414	ES
Double Stamp Fed Com 126H - Wellbore #1 - Design #1	3,900.00	3,458.62	1,901.51	1,876.10	74.839	SF

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Double Stamp W2-1 (111H,115H,121H,125H)						
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	800.00	800.00	108.06	102.51	19.485	CC
Double Stamp Fed Com 111H - Wellbore #1 - Design #1	8,704.45	8,696.54	132.35	70.03	2.124	ES, SF
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	2,093.27	2,094.34	78.08	63.42	5.324	CC
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	2,100.00	2,101.03	78.09	63.37	5.307	ES
Double Stamp Fed Com 115H - Wellbore #1 - Design #1	2,400.00	2,399.38	84.41	67.61	5.024	SF
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	1,608.40	1,610.53	91.23	80.00	8.129	CC
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	1,700.00	1,701.68	91.68	79.81	7.721	ES
Double Stamp Fed Com 121H - Wellbore #1 - Design #1	2,100.00	2,099.70	103.48	88.77	7.033	SF
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	1,200.00	1,200.00	80.11	71.70	9.522	CC
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	1,300.00	1,298.93	80.78	71.67	8.866	ES
Double Stamp Fed Com 125H - Wellbore #1 - Design #1	20,150.35	20,035.18	659.37	468.58	3.456	SF

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from Surface)

Offset Site Error: 0.00 usft

Survey Program: 0-MWD

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-107.840	-222.56	-691.52	726.90				
100.00	100.00	75.15	75.15	0.26	0.13	-107.840	-222.55	-691.49	726.42	726.02	0.40	1,824.097	
200.00	200.00	176.03	176.03	0.62	0.45	-107.841	-222.51	-691.34	726.27	725.20	1.07	676.388	
300.00	300.00	276.90	276.90	0.98	0.81	-107.841	-222.43	-691.08	726.00	724.20	1.79	404.719	
400.00	400.00	377.77	377.77	1.34	1.18	-107.842	-222.32	-690.70	725.61	723.09	2.51	288.636	
500.00	500.00	478.64	478.64	1.70	1.54	-107.843	-222.17	-690.21	725.10	721.86	3.23	224.210	
600.00	600.00	579.52	579.51	2.06	1.90	-107.844	-221.99	-689.60	724.47	720.51	3.95	183.220	
700.00	700.00	680.38	680.38	2.41	2.26	-107.845	-221.78	-688.87	723.71	719.04	4.67	154.833	
800.00	800.00	781.25	781.24	2.77	2.62	-107.847	-221.53	-688.03	722.84	717.45	5.39	134.003	
900.00	900.00	882.12	882.10	3.13	2.98	-107.849	-221.24	-687.07	721.85	715.73	6.11	118.060	
1,000.00	1,000.00	982.98	982.96	3.49	3.35	-107.851	-220.92	-685.99	720.74	713.90	6.83	105.459	
1,100.00	1,100.00	1,083.84	1,083.81	3.85	3.71	-107.853	-220.57	-684.80	719.50	711.95	7.55	95.244	
1,200.00	1,200.00	1,184.69	1,184.65	4.21	4.07	-107.856	-220.18	-683.49	718.15	709.87	8.27	86.792	
1,300.00	1,300.00	1,285.55	1,285.50	4.57	4.43	-107.859	-219.76	-682.06	716.67	707.68	8.99	79.681	
1,400.00	1,400.00	1,386.40	1,386.33	4.92	4.79	-107.862	-219.30	-680.52	715.08	705.37	9.71	73.611	
1,500.00	1,500.00	1,487.24	1,487.16	5.28	5.16	-107.865	-218.81	-678.86	713.37	702.93	10.43	68.368	
1,600.00	1,600.00	1,588.08	1,587.99	5.64	5.52	-107.869	-218.29	-677.09	711.53	700.38	11.15	63.790	
1,700.00	1,700.00	1,688.92	1,688.80	6.00	5.88	-107.873	-217.73	-675.19	709.57	697.70	11.87	59.758	
1,800.00	1,800.00	1,789.75	1,789.61	6.36	6.24	-107.877	-217.13	-673.19	707.50	694.91	12.59	56.177	
1,900.00	1,900.00	1,890.57	1,890.41	6.72	6.61	-107.881	-216.50	-671.06	705.30	691.99	13.31	52.975	
2,000.00	2,000.00	1,991.39	1,991.21	7.07	6.97	-107.886	-215.84	-668.82	702.99	688.95	14.03	50.093	
2,100.00	2,100.00	2,091.96	2,091.74	7.43	7.33	-107.890	-215.14	-666.48	700.55	685.80	14.75	47.486	
2,200.00	2,200.00	2,191.13	2,190.88	7.79	7.69	-107.894	-214.45	-664.19	698.15	682.68	15.47	45.138	
2,300.00	2,300.00	2,290.30	2,290.03	8.15	8.04	-107.895	-213.76	-662.03	695.86	679.68	16.18	43.003	
2,400.00	2,400.00	2,389.48	2,389.19	8.51	8.40	-107.893	-213.08	-659.98	693.68	676.79	16.90	41.056	
2,500.00	2,500.00	2,488.67	2,488.35	8.87	8.76	-107.889	-212.41	-658.05	691.62	674.01	17.61	39.274	
2,600.00	2,600.00	2,587.86	2,587.52	9.23	9.11	-107.883	-211.74	-656.24	689.68	671.35	18.32	37.637	
2,700.00	2,700.00	2,687.05	2,686.70	9.58	9.47	-107.874	-211.08	-654.55	687.85	668.81	19.04	36.128	
2,800.00	2,800.00	2,786.25	2,785.88	9.94	9.83	-107.862	-210.43	-652.97	686.13	666.38	19.75	34.735	
2,900.00	2,900.00	2,885.45	2,885.07	10.30	10.18	-107.848	-209.78	-651.51	684.53	664.06	20.47	33.445	
3,000.00	3,000.00	2,984.66	2,984.27	10.66	10.54	-107.832	-209.14	-650.16	683.04	661.86	21.18	32.247	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 2H - Wellbore #1 - Mock Surveys (from Surface)

Offset Site Error: 0.00 usft

Survey Program: 0-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,100.00	3,099.99	3,083.84	3,083.43	11.01	10.89	-107.806	-208.51	-648.94	680.36	658.48	21.88	31.091	
3,200.00	3,199.91	3,182.92	3,182.51	11.34	11.25	-107.764	-207.89	-647.83	675.19	652.62	22.57	29.912	
3,300.00	3,299.69	3,281.85	3,281.44	11.68	11.60	-107.704	-207.27	-646.84	667.52	644.26	23.26	28.696	
3,400.00	3,399.27	3,380.57	3,380.15	12.02	11.96	-107.626	-206.66	-645.97	657.37	633.42	23.95	27.447	
3,500.00	3,498.57	3,479.02	3,478.59	12.36	12.31	-107.527	-206.06	-645.21	644.73	620.10	24.64	26.168	
3,600.00	3,597.54	3,577.14	3,576.71	12.70	12.66	-107.405	-205.47	-644.58	629.63	604.31	25.32	24.864	
3,700.00	3,696.09	3,674.86	3,674.43	13.04	13.01	-107.259	-204.88	-644.06	612.06	586.06	26.01	23.536	
3,800.00	3,794.16	3,772.14	3,771.71	13.39	13.35	-107.082	-204.31	-643.66	592.05	565.36	26.68	22.188	
3,900.00	3,891.70	3,868.91	3,868.47	13.74	13.70	-106.871	-203.75	-643.37	569.60	542.24	27.36	20.821	
4,000.00	3,988.62	3,965.11	3,964.67	14.09	14.03	-106.617	-203.19	-643.19	544.73	516.70	28.02	19.438	
4,100.00	4,085.12	4,060.95	4,060.51	14.44	14.37	-106.322	-202.64	-643.12	518.40	489.71	28.69	18.071	
4,200.00	4,181.62	4,156.84	4,156.40	14.80	14.70	-105.992	-202.10	-643.16	492.17	462.82	29.35	16.771	
4,300.00	4,278.12	4,252.79	4,252.35	15.16	15.03	-105.622	-201.57	-643.32	466.06	436.05	30.01	15.532	
4,400.00	4,374.62	4,348.79	4,348.35	15.52	15.36	-105.205	-201.04	-643.58	440.09	409.42	30.67	14.351	
4,500.00	4,471.12	4,444.86	4,444.42	15.89	15.69	-104.733	-200.52	-643.95	414.24	382.92	31.32	13.224	
4,600.00	4,567.62	4,549.08	4,548.42	16.26	16.05	-103.522	-195.33	-644.48	387.52	355.52	32.01	12.108	
4,700.00	4,664.11	4,646.58	4,643.56	16.63	16.39	-99.643	-174.58	-647.08	360.02	327.34	32.69	11.014	
4,800.00	4,760.61	4,738.90	4,731.57	17.00	16.70	-93.962	-146.93	-650.00	334.21	300.82	33.39	10.010	
4,900.00	4,857.11	4,821.63	4,809.29	17.37	17.01	-87.324	-118.80	-653.30	313.40	279.36	34.04	9.208	
5,000.00	4,953.61	4,887.34	4,869.27	17.75	17.26	-80.212	-92.48	-658.02	302.65	268.36	34.29	8.825	SF
5,019.00	4,971.95	4,898.39	4,878.96	17.82	17.30	-78.757	-87.30	-659.16	302.34	268.08	34.26	8.826	CC, ES
5,100.00	5,050.11	4,940.05	4,914.03	18.12	17.47	-72.412	-65.48	-664.43	308.51	274.87	33.64	9.171	
5,200.00	5,146.61	4,984.70	4,948.90	18.50	17.66	-64.445	-38.73	-672.23	333.75	301.69	32.06	10.411	
5,300.00	5,243.11	5,029.64	4,981.10	18.88	17.86	-56.115	-8.74	-681.26	375.87	345.55	30.32	12.396	
5,400.00	5,339.61	5,067.70	5,006.16	19.26	18.04	-48.397	18.95	-688.54	430.89	402.34	28.55	15.091	
5,500.00	5,436.11	5,095.35	5,022.80	19.65	18.18	-41.723	40.41	-693.69	496.28	469.49	26.79	18.526	
5,600.00	5,532.60	5,119.00	5,035.80	20.03	18.30	-35.612	59.65	-698.19	569.51	544.15	25.37	22.452	
5,700.00	5,629.10	5,130.00	5,041.34	20.41	18.36	-30.470	68.88	-700.43	648.62	624.69	23.93	27.109	
5,800.00	5,725.60	5,140.00	5,045.98	20.80	18.42	-25.527	77.46	-702.64	732.18	709.31	22.87	32.016	
5,900.00	5,822.10	5,149.00	5,049.82	21.19	18.47	-20.815	85.32	-704.78	818.97	796.87	22.10	37.057	
6,000.00	5,918.60	5,150.00	5,050.23	21.58	18.47	-16.356	86.20	-705.02	908.26	886.90	21.36	42.521	
6,100.00	6,015.10	5,164.36	5,055.68	21.96	18.55	-12.109	98.99	-708.61	999.09	977.93	21.15	47.229	
6,200.00	6,111.60	5,175.00	5,059.25	22.35	18.61	-8.199	108.62	-711.35	1,091.47	1,070.50	20.97	52.045	
6,300.00	6,208.10	5,175.00	5,059.25	22.74	18.61	-4.313	108.62	-711.35	1,184.87	1,164.20	20.67	57.325	
6,400.00	6,304.59	5,180.00	5,060.79	23.14	18.64	-0.767	113.20	-712.66	1,279.19	1,258.63	20.56	62.218	
6,500.00	6,401.09	5,191.92	5,064.27	23.53	18.71	2.239	124.15	-715.82	1,374.14	1,353.51	20.63	66.605	
6,600.00	6,497.59	5,200.00	5,066.53	23.92	18.76	5.121	131.60	-717.99	1,469.61	1,448.93	20.68	71.073	
6,700.00	6,594.09	5,212.00	5,069.76	24.32	18.84	7.561	142.69	-721.25	1,565.50	1,544.69	20.82	75.205	
6,800.00	6,690.59	5,212.00	5,069.76	24.71	18.84	10.389	142.69	-721.25	1,661.79	1,640.98	20.81	79.850	
6,900.00	6,787.09	5,225.00	5,072.97	25.10	18.92	12.330	154.77	-724.82	1,758.43	1,737.42	21.01	83.691	
7,000.00	6,883.59	5,225.00	5,072.97	25.50	18.92	14.804	154.77	-724.82	1,855.33	1,834.27	21.06	88.087	
7,100.00	6,980.09	5,225.00	5,072.97	25.90	18.92	17.131	154.77	-724.82	1,952.54	1,931.40	21.14	92.360	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 2H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 4477-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,700.00	2,700.00	4,467.00	4,466.74	9.58	0.00	-107.284	-200.40	-644.05	1,914.96	1,909.95	5.01	382.175	
2,800.00	2,800.00	4,467.00	4,466.74	9.94	0.00	-107.284	-200.40	-644.05	1,821.71	1,816.44	5.27	345.375	
2,900.00	2,900.00	4,467.00	4,466.74	10.30	0.00	-107.284	-200.40	-644.05	1,729.22	1,723.65	5.56	310.809	
3,000.00	3,000.00	4,467.00	4,466.74	10.66	0.00	-107.284	-200.40	-644.05	1,637.60	1,631.72	5.88	278.432	
3,100.00	3,099.99	4,467.00	4,466.74	11.01	0.00	-107.276	-200.40	-644.05	1,546.47	1,540.24	6.23	248.413	
3,200.00	3,199.91	4,467.00	4,466.74	11.34	0.00	-107.252	-200.40	-644.05	1,455.36	1,448.77	6.59	220.851	
3,300.00	3,299.69	4,467.00	4,466.74	11.68	0.00	-107.211	-200.40	-644.05	1,364.34	1,357.36	6.98	195.558	
3,400.00	3,399.27	4,467.00	4,466.74	12.02	0.00	-107.153	-200.40	-644.05	1,273.51	1,266.12	7.39	172.342	
3,500.00	3,498.57	4,467.00	4,466.74	12.36	0.00	-107.076	-200.40	-644.05	1,182.98	1,175.14	7.83	151.031	
3,600.00	3,597.54	4,467.00	4,466.74	12.70	0.00	-106.978	-200.40	-644.05	1,092.88	1,084.57	8.31	131.480	
3,700.00	3,696.09	4,467.00	4,466.74	13.04	0.00	-106.857	-200.40	-644.05	1,003.42	994.58	8.84	113.569	
3,800.00	3,794.16	4,467.00	4,466.74	13.39	0.00	-106.709	-200.40	-644.05	914.83	905.42	9.41	97.200	
3,900.00	3,891.70	4,467.00	4,466.74	13.74	0.00	-106.528	-200.40	-644.05	827.49	817.44	10.05	82.304	
4,000.00	3,988.62	4,467.00	4,466.74	14.09	0.00	-106.310	-200.40	-644.05	741.89	731.12	10.78	68.844	
4,100.00	4,085.12	4,467.00	4,466.74	14.44	0.00	-106.055	-200.40	-644.05	659.36	647.76	11.60	56.820	
4,200.00	4,181.62	4,467.00	4,466.74	14.80	0.00	-105.773	-200.40	-644.05	582.32	569.75	12.57	46.341	
4,300.00	4,278.12	4,467.00	4,466.74	15.16	0.00	-105.459	-200.40	-644.05	513.25	499.61	13.64	37.616	
4,400.00	4,374.62	4,467.00	4,466.74	15.52	0.00	-105.108	-200.40	-644.05	455.81	441.07	14.74	30.927	
4,500.00	4,471.12	4,467.00	4,466.74	15.89	0.00	-104.713	-200.40	-644.05	414.85	399.24	15.60	26.587	
4,600.00	4,567.62	4,548.89	4,548.42	16.26	0.40	-103.525	-195.35	-644.48	387.53	371.25	16.28	23.808	
4,700.00	4,664.11	4,646.39	4,643.56	16.63	0.91	-99.650	-174.63	-647.08	360.03	342.96	17.06	21.099	
4,800.00	4,760.61	4,738.73	4,731.59	17.00	1.28	-93.971	-146.98	-649.99	334.21	316.25	17.96	18.610	
4,900.00	4,857.11	4,821.47	4,809.34	17.37	1.79	-87.333	-118.85	-653.29	313.39	294.48	18.90	16.578	
5,000.00	4,953.61	4,887.22	4,869.35	17.75	2.27	-80.222	-92.53	-658.01	302.62	282.79	19.83	15.263	
5,018.04	4,971.02	4,897.00	4,877.94	17.81	2.34	-78.904	-87.96	-659.01	302.30	282.33	19.97	15.135	CC, ES
5,100.00	5,050.11	4,939.95	4,914.14	18.12	2.73	-72.421	-65.53	-664.42	308.44	287.92	20.52	15.034	SF
5,200.00	5,146.61	4,984.61	4,949.02	18.50	3.18	-64.453	-38.78	-672.21	333.65	312.93	20.72	16.102	
5,300.00	5,243.11	5,029.55	4,981.23	18.88	3.68	-56.123	-8.80	-681.25	375.76	355.15	20.60	18.236	
5,400.00	5,339.61	5,067.63	5,006.31	19.26	4.15	-48.403	18.90	-688.53	430.76	410.48	20.28	21.237	
5,500.00	5,436.11	5,087.00	5,018.12	19.65	4.40	-42.332	33.82	-692.14	496.28	476.59	19.70	25.194	
5,600.00	5,532.60	5,119.00	5,035.99	20.03	4.83	-35.612	59.65	-698.20	569.36	549.92	19.44	29.287	
5,700.00	5,629.10	5,119.00	5,035.99	20.41	4.83	-30.972	59.65	-698.20	648.82	630.00	18.82	34.477	
5,800.00	5,725.60	5,149.00	5,050.01	20.80	5.26	-25.279	85.32	-704.78	732.24	713.45	18.79	38.974	
5,900.00	5,822.10	5,149.00	5,050.01	21.19	5.26	-20.815	85.32	-704.78	818.80	800.37	18.43	44.419	
6,000.00	5,918.60	5,149.00	5,050.01	21.58	5.26	-16.358	85.32	-704.78	908.12	889.93	18.19	49.913	
6,100.00	6,015.10	5,164.35	5,055.87	21.96	5.50	-12.109	98.98	-708.61	998.91	980.69	18.22	54.818	
6,200.00	6,111.60	5,180.00	5,060.98	22.35	5.74	-8.297	113.20	-712.66	1,091.46	1,073.16	18.30	59.653	
6,300.00	6,208.10	5,180.00	5,060.98	22.74	5.74	-4.457	113.20	-712.66	1,184.72	1,166.48	18.25	64.922	
6,400.00	6,304.59	5,180.00	5,060.98	23.14	5.74	-0.767	113.20	-712.66	1,279.01	1,260.76	18.25	70.093	
6,500.00	6,401.09	5,191.90	5,064.45	23.53	5.94	2.240	124.13	-715.82	1,373.97	1,355.57	18.39	74.706	
6,600.00	6,497.59	5,201.18	5,067.04	23.92	6.08	5.066	132.69	-718.31	1,469.43	1,450.90	18.53	79.297	
6,700.00	6,594.09	5,212.00	5,069.94	24.32	6.26	7.561	142.69	-721.25	1,565.32	1,546.63	18.70	83.712	
6,800.00	6,690.59	5,212.00	5,069.94	24.71	6.26	10.389	142.69	-721.25	1,661.61	1,642.81	18.80	88.400	
6,900.00	6,787.09	5,212.00	5,069.94	25.10	6.26	13.055	142.69	-721.25	1,758.31	1,739.39	18.91	92.968	
7,000.00	6,883.59	5,212.00	5,069.94	25.50	6.26	15.561	142.69	-721.25	1,855.36	1,836.31	19.05	97.417	
7,100.00	6,980.09	5,228.06	5,073.86	25.90	6.52	16.951	157.63	-725.66	1,952.35	1,933.04	19.31	101.126	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 4H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-GYRO-NS, 1256-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-112.206	-220.64	-540.49	584.44				
100.00	100.00	70.89	70.89	0.26	0.09	-112.189	-220.51	-540.64	583.89	583.54	0.35	1,663.168	
200.00	200.00	170.19	170.19	0.62	0.37	-112.126	-220.06	-541.23	584.26	583.27	0.99	589.180	
300.00	300.00	270.21	270.20	0.98	0.72	-112.065	-219.63	-541.83	584.66	582.96	1.70	343.900	
400.00	400.00	369.91	369.90	1.34	1.07	-112.008	-219.24	-542.43	585.07	582.66	2.41	243.066	
500.00	500.00	469.98	469.97	1.70	1.42	-111.956	-218.92	-543.05	585.52	582.41	3.12	187.949	
600.00	600.00	570.08	570.07	2.06	1.77	-111.917	-218.71	-543.59	585.94	582.12	3.82	153.234	
700.00	700.00	670.33	670.32	2.41	2.12	-111.885	-218.56	-544.08	586.34	581.81	4.53	129.352	
800.00	800.00	770.05	770.04	2.77	2.47	-111.847	-218.33	-544.58	586.72	581.48	5.24	111.967	
900.00	900.00	869.07	869.05	3.13	2.82	-111.804	-218.11	-545.19	587.21	581.27	5.95	98.774	
1,000.00	1,000.00	968.51	968.49	3.49	3.17	-111.765	-217.98	-545.94	587.86	581.21	6.65	88.379	
1,100.00	1,100.00	1,069.01	1,068.99	3.85	3.52	-111.744	-218.02	-546.64	588.52	581.16	7.36	79.940	
1,200.00	1,200.00	1,172.21	1,172.19	4.21	3.88	-111.719	-217.93	-547.10	588.91	580.83	8.08	72.880	
1,300.00	1,300.00	1,275.55	1,275.52	4.57	4.11	-111.730	-217.96	-546.86	588.70	580.03	8.67	67.903	
1,400.00	1,400.00	1,378.93	1,378.90	4.92	4.14	-111.753	-217.87	-546.03	587.92	578.87	9.06	64.909	
1,500.00	1,500.00	1,478.97	1,478.93	5.28	4.20	-111.782	-217.71	-544.81	586.73	577.25	9.47	61.928	
1,600.00	1,600.00	1,582.46	1,582.41	5.64	4.29	-111.815	-217.48	-543.31	585.31	575.38	9.92	58.978	
1,700.00	1,700.00	1,684.61	1,684.55	6.00	4.41	-111.851	-217.12	-541.45	583.49	573.09	10.40	56.096	
1,800.00	1,800.00	1,784.00	1,783.91	6.36	4.55	-111.874	-216.50	-539.26	581.21	570.31	10.90	53.318	
1,900.00	1,900.00	1,883.38	1,883.28	6.72	4.72	-111.891	-215.97	-537.49	579.36	567.93	11.42	50.710	
2,000.00	2,000.00	1,982.78	1,982.65	7.07	4.90	-111.870	-215.08	-535.82	577.46	565.50	11.97	48.253	
2,100.00	2,100.00	2,080.78	2,080.64	7.43	5.10	-111.855	-214.36	-534.46	575.90	563.37	12.53	45.975	
2,200.00	2,200.00	2,179.49	2,179.34	7.79	5.32	-111.900	-214.34	-533.18	574.69	561.58	13.10	43.864	
2,300.00	2,300.00	2,286.47	2,286.29	8.15	5.56	-112.056	-215.09	-530.87	572.96	559.25	13.71	41.798	
2,400.00	2,400.00	2,383.84	2,383.62	8.51	5.81	-112.214	-215.74	-528.28	570.74	556.43	14.31	39.887	
2,500.00	2,500.00	2,475.62	2,475.40	8.87	6.04	-112.252	-215.64	-527.04	569.45	554.55	14.90	38.208	
2,600.00	2,600.00	2,573.23	2,573.00	9.23	6.29	-112.161	-214.67	-527.05	569.09	553.58	15.51	36.682	
2,700.00	2,700.00	2,674.90	2,674.66	9.58	6.56	-112.005	-213.15	-527.43	568.88	552.74	16.14	35.245	
2,800.00	2,800.00	2,774.77	2,774.53	9.94	6.84	-111.971	-212.75	-527.33	568.64	551.86	16.77	33.898	
2,900.00	2,900.00	2,876.71	2,876.47	10.30	7.13	-112.007	-212.83	-526.59	567.98	550.56	17.43	32.592	
3,000.00	3,000.00	2,977.73	2,977.48	10.66	7.43	-112.062	-213.06	-525.72	567.28	549.20	18.08	31.373	
3,100.00	3,099.99	3,075.69	3,075.44	11.01	7.72	-112.102	-213.13	-524.87	565.19	546.46	18.72	30.189	
3,200.00	3,199.91	3,171.31	3,171.06	11.34	8.00	-112.133	-213.33	-524.69	561.17	541.83	19.34	29.023	
3,300.00	3,299.69	3,270.51	3,270.26	11.68	8.29	-112.145	-213.45	-524.90	554.87	534.91	19.96	27.802	
3,400.00	3,399.27	3,370.32	3,370.06	12.02	8.58	-112.093	-213.02	-525.51	546.13	525.54	20.59	26.527	
3,500.00	3,498.57	3,466.99	3,466.72	12.36	8.87	-112.010	-212.35	-526.31	534.88	513.67	21.21	25.216	
3,600.00	3,597.54	3,567.89	3,567.62	12.70	9.17	-111.918	-211.62	-527.18	521.05	499.19	21.85	23.843	
3,700.00	3,696.09	3,666.91	3,666.64	13.04	9.48	-111.887	-211.41	-527.81	504.62	482.13	22.49	22.438	
3,800.00	3,794.16	3,769.16	3,768.89	13.39	9.80	-111.835	-210.80	-527.96	485.02	461.88	23.14	20.958	
3,900.00	3,891.70	3,867.03	3,866.75	13.74	10.11	-111.733	-209.65	-527.77	462.36	438.57	23.79	19.437	
4,000.00	3,988.62	3,964.40	3,964.11	14.09	10.43	-111.596	-208.33	-527.72	437.21	412.78	24.43	17.896	
4,100.00	4,085.12	4,053.59	4,053.29	14.44	10.71	-111.453	-207.22	-528.00	410.87	385.82	25.05	16.403	
4,200.00	4,181.62	4,145.55	4,145.22	14.80	11.01	-111.247	-206.55	-530.22	386.55	360.88	25.67	15.058	
4,300.00	4,278.12	4,248.90	4,248.54	15.16	11.34	-111.108	-206.46	-532.25	362.08	335.75	26.33	13.752	
4,400.00	4,374.62	4,346.99	4,346.64	15.52	11.66	-111.124	-206.67	-532.22	335.90	308.92	26.98	12.452	
4,500.00	4,471.12	4,445.81	4,445.46	15.89	11.98	-111.198	-207.11	-531.95	309.57	281.95	27.62	11.206	
4,600.00	4,567.62	4,541.56	4,541.20	16.26	12.29	-111.226	-207.20	-531.58	283.03	254.76	28.27	10.011	
4,700.00	4,664.11	4,683.97	4,682.87	16.63	12.77	-112.317	-207.94	-520.33	250.93	222.38	28.55	8.790	
4,800.00	4,760.61	4,818.09	4,808.39	17.00	13.25	-119.531	-213.36	-474.64	196.61	168.83	27.78	7.077	
4,900.00	4,857.11	4,920.65	4,894.33	17.37	13.68	-136.594	-215.97	-419.14	130.80	103.63	27.17	4.814	
5,000.00	4,953.61	4,983.90	4,940.85	17.75	14.01	-171.414	-215.04	-376.35	74.38	43.31	31.07	2.394	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Belco AIA Federal 4H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-GYRO-NS, 1256-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,031.12	4,983.64	4,999.06	4,951.30	17.86	14.10	173.603	-214.52	-365.37	69.20	37.32	31.88	2.171	CC, ES, SF
5,100.00	5,050.11	5,028.32	4,970.64	18.12	14.28	142.711	-213.49	-343.45	92.61	64.91	27.71	3.343	
5,200.00	5,146.61	5,060.31	4,990.31	18.50	14.50	117.539	-212.14	-318.26	168.30	145.11	23.19	7.259	
5,300.00	5,243.11	5,082.83	5,003.01	18.88	14.67	105.863	-211.12	-299.70	257.08	235.62	21.46	11.980	
5,400.00	5,339.61	5,106.00	5,014.96	19.26	14.86	98.976	-210.12	-279.87	350.33	329.40	20.93	16.735	
5,500.00	5,436.11	5,106.00	5,014.96	19.65	14.86	95.335	-210.12	-279.87	445.51	425.68	19.83	22.462	
5,600.00	5,532.60	5,121.88	5,022.45	20.03	15.00	92.116	-209.37	-265.89	541.87	522.11	19.76	27.422	
5,700.00	5,629.10	5,138.00	5,029.44	20.41	15.15	89.720	-208.44	-251.40	639.24	619.44	19.80	32.285	
5,800.00	5,725.60	5,138.00	5,029.44	20.80	15.15	87.974	-208.44	-251.40	736.89	717.41	19.49	37.815	
5,900.00	5,822.10	5,138.00	5,029.44	21.19	15.15	86.486	-208.44	-251.40	835.10	815.80	19.30	43.262	
6,000.00	5,918.60	5,149.89	5,034.26	21.58	15.27	85.228	-207.68	-240.56	933.50	914.05	19.44	48.009	
6,100.00	6,015.10	5,155.59	5,036.50	21.96	15.32	84.167	-207.31	-235.33	1,032.14	1,012.65	19.49	52.956	
6,200.00	6,111.60	5,170.00	5,041.94	22.35	15.47	83.305	-206.35	-222.02	1,131.07	1,111.35	19.72	57.368	
6,300.00	6,208.10	5,170.00	5,041.94	22.74	15.47	82.487	-206.35	-222.02	1,229.94	1,210.23	19.72	62.376	
6,400.00	6,304.59	5,170.00	5,041.94	23.14	15.47	81.753	-206.35	-222.02	1,328.99	1,309.23	19.75	67.276	
6,500.00	6,401.09	5,170.00	5,041.94	23.53	15.47	81.092	-206.35	-222.02	1,428.16	1,408.34	19.82	72.068	
6,600.00	6,497.59	5,170.00	5,041.94	23.92	15.47	80.494	-206.35	-222.02	1,527.44	1,507.54	19.90	76.751	
6,700.00	6,594.09	5,170.00	5,041.94	24.32	15.47	79.950	-206.35	-222.02	1,626.82	1,606.81	20.00	81.325	
6,800.00	6,690.59	5,183.47	5,046.76	24.71	15.61	79.587	-205.46	-209.47	1,726.08	1,705.81	20.28	85.130	
6,900.00	6,787.09	5,186.36	5,047.76	25.10	15.64	79.164	-205.26	-206.77	1,825.50	1,805.07	20.43	89.351	
7,000.00	6,883.59	5,189.03	5,048.68	25.50	15.67	78.775	-205.09	-204.26	1,924.97	1,904.38	20.59	93.478	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Queenie 15 1H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-GYRO-NS, 1245-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-111.421	-351.95	-897.11	963.68				
100.00	100.00	97.94	97.94	0.26	0.13	-111.424	-352.04	-897.16	963.76	963.37	0.39	2,457.921	
200.00	200.00	197.63	197.63	0.62	0.47	-111.433	-352.24	-897.27	963.94	962.84	1.10	880.262	
300.00	300.00	293.37	293.37	0.98	0.81	-111.442	-352.52	-897.58	964.35	962.56	1.79	539.059	
400.00	400.00	389.69	389.69	1.34	1.15	-111.452	-352.97	-898.26	965.18	962.69	2.49	388.375	
500.00	500.00	491.46	491.45	1.70	1.50	-111.466	-353.54	-899.09	966.13	962.93	3.20	301.883	
600.00	600.00	595.20	595.19	2.06	1.87	-111.477	-353.96	-899.64	966.78	962.85	3.92	246.474	
700.00	700.00	696.64	696.62	2.41	2.22	-111.489	-354.29	-899.91	967.14	962.51	4.64	208.611	
800.00	800.00	796.19	796.17	2.77	2.57	-111.499	-354.56	-900.14	967.46	962.12	5.34	181.063	
900.00	900.00	896.44	896.43	3.13	2.92	-111.489	-354.53	-900.51	967.79	961.74	6.05	159.895	
1,000.00	1,000.00	995.16	995.14	3.49	3.27	-111.460	-354.20	-901.05	968.17	961.42	6.76	143.299	
1,100.00	1,100.00	1,092.61	1,092.59	3.85	3.61	-111.429	-353.92	-901.76	968.75	961.30	7.46	129.932	
1,200.00	1,200.00	1,198.94	1,198.92	4.21	3.85	-111.392	-353.64	-902.77	969.57	961.51	8.06	120.303	
1,300.00	1,300.00	1,309.36	1,309.33	4.57	3.96	-111.341	-352.59	-902.41	968.89	960.37	8.53	113.638	
1,400.00	1,400.00	1,412.73	1,412.68	4.92	4.02	-111.281	-351.18	-901.61	967.68	958.74	8.94	108.238	
1,500.00	1,500.00	1,511.37	1,511.31	5.28	4.10	-111.224	-349.78	-900.69	966.30	956.91	9.39	102.959	
1,600.00	1,600.00	1,609.78	1,609.71	5.64	4.22	-111.155	-348.32	-900.14	965.24	955.38	9.86	97.915	
1,700.00	1,700.00	1,710.12	1,710.03	6.00	4.36	-111.080	-346.75	-899.56	964.14	953.78	10.36	93.071	
1,800.00	1,800.00	1,813.02	1,812.92	6.36	4.53	-110.996	-344.99	-898.94	962.96	952.07	10.89	88.438	
1,900.00	1,900.00	1,913.60	1,913.49	6.72	4.72	-110.938	-343.55	-897.90	961.48	950.05	11.43	84.086	
2,000.00	2,000.00	2,013.14	2,013.01	7.07	4.92	-110.964	-343.46	-896.41	960.05	948.06	11.99	80.043	
2,100.00	2,100.00	2,118.12	2,117.97	7.43	5.15	-111.017	-343.67	-894.49	958.42	945.84	12.58	76.183	
2,200.00	2,200.00	2,220.01	2,219.82	7.79	5.39	-111.130	-344.69	-891.92	956.42	943.24	13.18	72.590	
2,300.00	2,300.00	2,324.14	2,323.87	8.15	5.64	-111.321	-346.73	-888.36	953.94	940.15	13.79	69.188	
2,400.00	2,400.00	2,412.45	2,412.10	8.51	5.87	-111.512	-349.00	-885.44	951.83	937.45	14.37	66.224	
2,445.89	2,445.89	2,445.76	2,445.39	8.67	5.95	-111.593	-350.17	-884.74	951.52	936.90	14.62	65.065	
2,500.00	2,500.00	2,491.00	2,490.58	8.87	6.07	-111.713	-352.17	-884.39	951.97	937.04	14.93	63.745	
2,600.00	2,600.00	2,590.25	2,589.76	9.23	6.33	-111.900	-355.61	-884.61	953.46	937.90	15.55	61.302	
2,700.00	2,700.00	2,724.35	2,723.85	9.58	6.71	-111.896	-355.03	-883.33	952.32	936.04	16.28	58.478	
2,800.00	2,800.00	2,823.41	2,822.85	9.94	7.00	-111.804	-352.55	-881.25	949.44	932.51	16.93	56.076	
2,900.00	2,900.00	2,903.79	2,903.20	10.30	7.23	-111.689	-350.30	-880.73	947.84	930.31	17.53	54.076	
2,914.00	2,914.00	2,914.16	2,913.56	10.35	7.26	-111.670	-349.99	-880.83	947.82	930.21	17.61	53.827	
3,000.00	3,000.00	2,981.68	2,981.03	10.66	7.46	-111.518	-347.93	-882.48	948.77	930.66	18.11	52.388	
3,100.00	3,099.99	3,072.03	3,071.25	11.01	7.72	-111.258	-344.76	-886.16	949.97	931.25	18.72	50.754	
3,200.00	3,199.91	3,167.08	3,166.12	11.34	8.00	-110.960	-341.28	-890.82	949.30	929.97	19.33	49.106	
3,300.00	3,299.69	3,274.89	3,273.73	11.68	8.33	-110.621	-337.32	-895.98	945.94	925.94	20.00	47.299	
3,400.00	3,399.27	3,373.00	3,371.69	12.02	8.64	-110.321	-333.80	-900.26	939.62	918.98	20.64	45.530	
3,500.00	3,498.57	3,470.15	3,468.66	12.36	8.94	-109.991	-329.97	-904.73	930.82	909.54	21.28	43.748	
3,600.00	3,597.54	3,553.18	3,551.12	12.70	9.21	-109.420	-322.67	-910.47	920.10	898.24	21.87	42.076	
3,700.00	3,696.09	3,623.00	3,619.35	13.04	9.44	-108.493	-310.81	-919.18	909.62	887.22	22.40	40.611	
3,800.00	3,794.16	3,685.00	3,678.74	13.39	9.66	-107.353	-296.71	-929.97	900.24	877.37	22.87	39.363	
3,900.00	3,891.70	3,736.92	3,727.30	13.74	9.86	-106.160	-282.96	-942.12	893.70	870.46	23.24	38.453	
4,000.00	3,988.62	3,806.12	3,790.13	14.09	10.14	-104.299	-261.64	-961.71	889.68	865.98	23.70	37.542	
4,064.73	4,051.12	3,841.00	3,820.98	14.32	10.29	-103.192	-249.40	-972.43	888.39	864.49	23.90	37.176	CC, ES
4,100.00	4,085.12	3,859.90	3,837.38	14.44	10.38	-102.549	-242.39	-978.66	888.53	864.53	23.99	37.030	SF
4,200.00	4,181.62	3,903.00	3,873.93	14.80	10.59	-100.927	-225.61	-994.18	893.80	869.68	24.12	37.054	
4,300.00	4,278.12	3,958.81	3,919.50	15.16	10.90	-98.726	-202.21	-1,016.29	905.29	880.96	24.32	37.219	
4,400.00	4,374.62	4,013.68	3,962.56	15.52	11.24	-96.396	-177.64	-1,039.80	922.89	898.42	24.47	37.711	
4,500.00	4,471.12	4,059.00	3,996.88	15.89	11.55	-94.265	-156.08	-1,060.07	946.16	921.70	24.45	38.693	
4,600.00	4,567.62	4,108.99	4,032.95	16.26	11.92	-91.822	-130.69	-1,083.57	975.48	951.02	24.46	39.879	
4,700.00	4,664.11	4,153.00	4,063.44	16.63	12.29	-89.503	-107.24	-1,104.95	1,010.37	986.02	24.36	41.480	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp - Offsets (NAD 83) - Queenie 15 1H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-GYRO-NS, 1245-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,760.61	4,184.00	4,083.86	17.00	12.56	-87.591	-90.01	-1,120.67	1,051.18	1,027.14	24.04	43.726	
4,900.00	4,857.11	4,224.78	4,109.57	17.37	12.95	-85.240	-66.69	-1,142.08	1,097.36	1,073.48	23.87	45.963	
5,000.00	4,953.61	4,257.68	4,129.69	17.75	13.29	-83.156	-47.60	-1,159.79	1,148.07	1,124.47	23.60	48.648	
5,100.00	5,050.11	4,276.00	4,140.43	18.12	13.48	-81.564	-36.81	-1,169.96	1,203.54	1,180.42	23.12	52.067	
5,200.00	5,146.61	4,307.00	4,157.56	18.50	13.83	-79.460	-18.14	-1,187.81	1,263.42	1,240.55	22.87	55.242	
5,300.00	5,243.11	4,320.62	4,164.66	18.88	13.99	-77.935	-9.78	-1,195.89	1,327.19	1,304.80	22.39	59.267	
5,400.00	5,339.61	4,338.00	4,173.38	19.26	14.19	-76.229	0.98	-1,206.38	1,394.44	1,372.41	22.03	63.309	
5,500.00	5,436.11	4,369.00	4,188.35	19.65	14.58	-74.034	20.36	-1,225.39	1,464.43	1,442.51	21.92	66.811	
5,600.00	5,532.60	4,401.00	4,203.19	20.03	14.99	-71.813	40.61	-1,245.23	1,536.76	1,514.89	21.87	70.262	
5,700.00	5,629.10	4,437.06	4,219.42	20.41	15.48	-69.484	63.77	-1,267.60	1,610.98	1,589.05	21.93	73.474	
5,800.00	5,725.60	4,479.35	4,238.17	20.80	16.07	-67.039	91.14	-1,293.82	1,686.59	1,664.48	22.11	76.289	
5,900.00	5,822.10	4,525.00	4,258.23	21.19	16.72	-64.618	120.71	-1,322.24	1,763.37	1,740.99	22.37	78.822	
6,000.00	5,918.60	4,564.26	4,275.29	21.58	17.30	-62.437	146.20	-1,346.75	1,841.19	1,818.62	22.58	81.557	
6,100.00	6,015.10	4,604.42	4,292.57	21.96	17.91	-60.324	172.33	-1,371.88	1,919.98	1,897.16	22.82	84.143	
6,200.00	6,111.60	4,647.79	4,311.03	22.35	18.58	-58.254	200.58	-1,399.12	1,999.64	1,976.51	23.13	86.444	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 113H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	2.00	0.00	0.01	88.677	25.04	1,084.23	1,084.52				
100.00	100.00	102.00	102.00	0.26	0.27	88.677	25.04	1,084.23	1,084.52	1,083.98	0.53	2,030.458	
200.00	200.00	202.00	202.00	0.62	0.63	88.677	25.04	1,084.23	1,084.52	1,083.26	1.25	866.873	
300.00	300.00	302.00	302.00	0.98	0.99	88.677	25.04	1,084.23	1,084.52	1,082.55	1.97	551.072	
400.00	400.00	402.00	402.00	1.34	1.35	88.677	25.04	1,084.23	1,084.52	1,081.83	2.68	403.923	
500.00	500.00	502.00	502.00	1.70	1.70	88.677	25.04	1,084.23	1,084.52	1,081.11	3.40	318.797	
600.00	600.00	602.00	602.00	2.06	2.06	88.677	25.04	1,084.23	1,084.52	1,080.40	4.12	263.306	
700.00	700.00	702.00	702.00	2.41	2.42	88.677	25.04	1,084.23	1,084.52	1,079.68	4.84	224.269	
800.00	800.00	802.00	802.00	2.77	2.78	88.677	25.04	1,084.23	1,084.52	1,078.96	5.55	195.312	
900.00	900.00	902.00	902.00	3.13	3.14	88.677	25.04	1,084.23	1,084.52	1,078.25	6.27	172.978	
1,000.00	1,000.00	1,002.00	1,002.00	3.49	3.50	88.677	25.04	1,084.23	1,084.52	1,077.53	6.99	155.228	
1,100.00	1,100.00	1,102.00	1,102.00	3.85	3.86	88.677	25.04	1,084.23	1,084.52	1,076.81	7.70	140.781	
1,165.99	1,165.99	1,167.99	1,167.99	4.08	4.09	88.677	25.04	1,084.23	1,084.52	1,076.34	8.18	132.636	CC
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	88.677	25.04	1,084.23	1,084.52	1,076.10	8.41	128.905	
1,300.00	1,300.00	1,293.98	1,293.98	4.57	4.53	88.713	24.36	1,084.59	1,084.89	1,075.80	9.09	119.317	ES
1,400.00	1,400.00	1,386.07	1,386.04	4.92	4.83	88.819	22.38	1,085.65	1,086.00	1,076.24	9.75	111.348	
1,500.00	1,500.00	1,478.06	1,477.95	5.28	5.14	88.994	19.09	1,087.40	1,087.84	1,077.42	10.42	104.447	
1,600.00	1,600.00	1,569.91	1,569.65	5.64	5.44	89.237	14.51	1,089.85	1,090.42	1,079.34	11.08	98.422	
1,700.00	1,700.00	1,661.57	1,661.07	6.00	5.75	89.547	8.65	1,092.97	1,093.77	1,082.03	11.74	93.133	
1,800.00	1,800.00	1,752.99	1,752.14	6.36	6.07	89.921	1.52	1,096.78	1,097.91	1,085.50	12.41	88.471	
1,900.00	1,900.00	1,844.88	1,843.52	6.72	6.38	90.361	-6.93	1,101.29	1,102.86	1,089.79	13.08	84.327	
2,000.00	2,000.00	1,944.26	1,942.29	7.07	6.72	90.862	-16.65	1,106.47	1,108.21	1,094.43	13.78	80.429	
2,100.00	2,100.00	2,043.64	2,041.06	7.43	7.07	91.358	-26.36	1,111.66	1,113.64	1,099.16	14.48	76.902	
2,200.00	2,200.00	2,143.03	2,139.83	7.79	7.42	91.850	-36.08	1,116.84	1,119.15	1,103.97	15.19	73.698	
2,300.00	2,300.00	2,242.41	2,238.60	8.15	7.77	92.337	-45.79	1,122.03	1,124.75	1,108.86	15.89	70.776	
2,400.00	2,400.00	2,341.80	2,337.38	8.51	8.12	92.819	-55.51	1,127.21	1,130.43	1,113.83	16.60	68.102	
2,500.00	2,500.00	2,441.18	2,436.15	8.87	8.47	93.296	-65.22	1,132.40	1,136.18	1,118.87	17.31	65.646	
2,600.00	2,600.00	2,540.57	2,534.92	9.23	8.83	93.769	-74.94	1,137.58	1,142.02	1,124.00	18.02	63.384	
2,700.00	2,700.00	2,639.95	2,633.69	9.58	9.18	94.236	-84.65	1,142.76	1,147.93	1,129.20	18.73	61.294	
2,800.00	2,800.00	2,739.33	2,732.47	9.94	9.54	94.699	-94.36	1,147.95	1,153.92	1,134.48	19.44	59.359	
2,900.00	2,900.00	2,838.72	2,831.24	10.30	9.89	95.157	-104.08	1,153.13	1,159.98	1,139.83	20.15	57.562	
3,000.00	3,000.00	2,938.10	2,930.01	10.66	10.25	95.611	-113.79	1,158.32	1,166.12	1,145.25	20.86	55.890	
3,100.00	3,099.99	3,037.46	3,028.76	11.01	10.61	96.030	-123.51	1,163.50	1,173.49	1,151.92	21.57	54.415	
3,200.00	3,199.91	3,136.71	3,127.40	11.34	10.97	96.384	-133.21	1,168.68	1,183.22	1,160.97	22.26	53.166	
3,300.00	3,299.69	3,235.80	3,225.87	11.68	11.33	96.672	-142.89	1,173.85	1,195.30	1,172.35	22.95	52.094	
3,400.00	3,399.27	3,334.64	3,324.11	12.02	11.69	96.895	-152.55	1,179.00	1,209.68	1,186.05	23.63	51.182	
3,500.00	3,498.57	3,433.18	3,422.04	12.36	12.04	97.054	-162.19	1,184.14	1,226.35	1,202.03	24.32	50.418	
3,600.00	3,597.54	3,531.35	3,519.61	12.70	12.40	97.149	-171.78	1,189.26	1,245.29	1,220.28	25.01	49.789	
3,700.00	3,696.09	3,629.08	3,616.73	13.04	12.76	97.183	-181.33	1,194.36	1,266.46	1,240.77	25.70	49.284	
3,800.00	3,794.16	3,726.29	3,713.35	13.39	13.11	97.160	-190.84	1,199.43	1,289.87	1,263.48	26.38	48.894	
3,900.00	3,891.70	3,822.94	3,809.40	13.74	13.46	97.081	-200.28	1,204.47	1,315.48	1,288.42	27.06	48.611	
4,000.00	3,988.62	3,918.94	3,904.81	14.09	13.81	96.952	-209.67	1,209.48	1,343.29	1,315.55	27.74	48.427	
4,100.00	4,085.12	4,014.51	3,999.80	14.44	14.16	96.795	-219.01	1,214.47	1,372.48	1,344.07	28.41	48.303	
4,200.00	4,181.62	4,110.08	4,094.77	14.80	14.51	96.644	-228.35	1,219.45	1,401.71	1,372.62	29.09	48.186	
4,300.00	4,278.12	4,205.64	4,189.75	15.16	14.86	96.499	-237.69	1,224.44	1,430.94	1,401.17	29.77	48.070	
4,400.00	4,374.62	4,301.21	4,284.73	15.52	15.21	96.359	-247.03	1,229.42	1,460.18	1,429.73	30.45	47.957	
4,500.00	4,471.12	4,396.77	4,379.70	15.89	15.56	96.226	-256.38	1,234.41	1,489.43	1,458.30	31.13	47.847	
4,600.00	4,567.62	4,492.34	4,474.68	16.26	15.91	96.097	-265.72	1,239.39	1,518.69	1,486.88	31.81	47.739	
4,700.00	4,664.11	4,587.90	4,569.65	16.63	16.26	95.973	-275.06	1,244.38	1,547.95	1,515.45	32.50	47.634	
4,800.00	4,760.61	4,683.47	4,664.63	17.00	16.61	95.854	-284.40	1,249.36	1,577.22	1,544.04	33.18	47.531	
4,900.00	4,857.11	4,779.03	4,759.61	17.37	16.96	95.739	-293.74	1,254.35	1,606.50	1,572.63	33.87	47.430	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 113H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.61	4,874.59	4,854.58	17.75	17.31	95.629	-303.08	1,259.33	1,635.79	1,601.23	34.56	47.332	
5,100.00	5,050.11	4,970.16	4,949.56	18.12	17.66	95.522	-312.42	1,264.32	1,665.08	1,629.83	35.25	47.236	
5,200.00	5,146.61	5,065.72	5,044.53	18.50	18.01	95.419	-321.76	1,269.30	1,694.37	1,658.43	35.94	47.142	
5,300.00	5,243.11	5,161.29	5,139.51	18.88	18.36	95.319	-331.10	1,274.29	1,723.67	1,687.04	36.63	47.051	
5,400.00	5,339.61	5,256.85	5,234.49	19.26	18.71	95.223	-340.45	1,279.27	1,752.98	1,715.65	37.33	46.962	
5,500.00	5,436.11	5,352.42	5,329.46	19.65	19.06	95.130	-349.79	1,284.26	1,782.29	1,744.27	38.02	46.875	
5,600.00	5,532.60	5,447.98	5,424.44	20.03	19.41	95.040	-359.13	1,289.24	1,811.61	1,772.89	38.72	46.791	
5,700.00	5,629.10	5,543.55	5,519.41	20.41	19.76	94.953	-368.47	1,294.23	1,840.93	1,801.51	39.41	46.708	
5,800.00	5,725.60	5,639.11	5,614.39	20.80	20.12	94.868	-377.81	1,299.21	1,870.25	1,830.14	40.11	46.627	
5,900.00	5,822.10	5,734.67	5,709.37	21.19	20.47	94.786	-387.15	1,304.20	1,899.58	1,858.77	40.81	46.548	
6,000.00	5,918.60	5,830.24	5,804.34	21.58	20.82	94.707	-396.49	1,309.18	1,928.91	1,887.41	41.51	46.471	
6,100.00	6,015.10	5,925.80	5,899.32	21.96	21.17	94.630	-405.83	1,314.17	1,958.25	1,916.04	42.21	46.396	
6,200.00	6,111.60	6,021.37	5,994.29	22.35	21.52	94.555	-415.18	1,319.15	1,987.59	1,944.68	42.91	46.323	SF

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 116H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	2.00	0.00	0.01	88.707	25.04	1,109.23	1,109.51				
100.00	100.00	102.00	102.00	0.26	0.27	88.707	25.04	1,109.23	1,109.51	1,108.97	0.53	2,077.252	
200.00	200.00	202.00	202.00	0.62	0.63	88.707	25.04	1,109.23	1,109.51	1,108.26	1.25	886.850	
300.00	300.00	302.00	302.00	0.98	0.99	88.707	25.04	1,109.23	1,109.51	1,107.54	1.97	563.772	
400.00	400.00	402.00	402.00	1.34	1.35	88.707	25.04	1,109.23	1,109.51	1,106.82	2.68	413.232	
500.00	500.00	502.00	502.00	1.70	1.70	88.707	25.04	1,109.23	1,109.51	1,106.11	3.40	326.144	
600.00	600.00	602.00	602.00	2.06	2.06	88.707	25.04	1,109.23	1,109.51	1,105.39	4.12	269.374	
700.00	700.00	702.00	702.00	2.41	2.42	88.707	25.04	1,109.23	1,109.51	1,104.67	4.84	229.437	
800.00	800.00	802.00	802.00	2.77	2.78	88.707	25.04	1,109.23	1,109.51	1,103.96	5.55	199.813	
900.00	900.00	902.00	902.00	3.13	3.14	88.707	25.04	1,109.23	1,109.51	1,103.24	6.27	176.964	
1,000.00	1,000.00	1,002.00	1,002.00	3.49	3.50	88.707	25.04	1,109.23	1,109.51	1,102.52	6.99	158.805	
1,100.00	1,100.00	1,102.00	1,102.00	3.85	3.86	88.707	25.04	1,109.23	1,109.51	1,101.80	7.70	144.026	
1,200.00	1,200.00	1,202.00	1,202.00	4.21	4.21	88.707	25.04	1,109.23	1,109.51	1,101.09	8.42	131.763	
1,300.00	1,300.00	1,302.00	1,302.00	4.57	4.57	88.707	25.04	1,109.23	1,109.51	1,100.37	9.14	121.424	
1,400.00	1,400.00	1,402.00	1,402.00	4.92	4.93	88.707	25.04	1,109.23	1,109.51	1,099.65	9.85	112.590	
1,500.00	1,500.00	1,502.00	1,502.00	5.28	5.29	88.707	25.04	1,109.23	1,109.51	1,098.94	10.57	104.955	
1,600.00	1,600.00	1,602.00	1,602.00	5.64	5.65	88.707	25.04	1,109.23	1,109.51	1,098.22	11.29	98.289	
1,700.00	1,700.00	1,702.00	1,702.00	6.00	6.01	88.707	25.04	1,109.23	1,109.51	1,097.50	12.01	92.419	
1,765.99	1,765.99	1,767.99	1,767.99	6.24	6.24	88.707	25.04	1,109.23	1,109.51	1,097.03	12.48	88.915	CC
1,800.00	1,800.00	1,800.00	1,800.00	6.36	6.36	88.707	25.04	1,109.23	1,109.51	1,096.80	12.71	87.260	ES
1,900.00	1,900.00	1,880.11	1,880.11	6.72	6.64	88.721	24.78	1,110.02	1,110.51	1,097.17	13.35	83.191	
2,000.00	2,000.00	1,958.58	1,958.54	7.07	6.90	88.764	23.99	1,112.34	1,113.45	1,099.48	13.97	79.721	
2,100.00	2,100.00	2,036.92	2,036.77	7.43	7.17	88.835	22.69	1,116.19	1,118.32	1,103.74	14.58	76.713	
2,200.00	2,200.00	2,115.06	2,114.71	7.79	7.43	88.933	20.89	1,121.53	1,125.12	1,109.93	15.18	74.098	
2,300.00	2,300.00	2,200.00	2,199.27	8.15	7.72	89.069	18.35	1,129.05	1,133.86	1,118.05	15.82	71.693	
2,400.00	2,400.00	2,270.49	2,269.30	8.51	7.97	89.204	15.79	1,136.64	1,144.47	1,128.10	16.38	69.880	
2,500.00	2,500.00	2,347.65	2,345.78	8.87	8.23	89.375	12.51	1,146.36	1,157.02	1,140.06	16.96	68.203	
2,600.00	2,600.00	2,424.37	2,421.59	9.23	8.50	89.566	8.76	1,157.47	1,171.47	1,153.93	17.54	66.777	
2,700.00	2,700.00	2,500.00	2,496.09	9.58	8.77	89.775	4.59	1,169.83	1,187.82	1,169.71	18.11	65.589	
2,800.00	2,800.00	2,576.23	2,570.90	9.94	9.03	90.005	-0.10	1,183.70	1,206.05	1,187.37	18.67	64.584	
2,900.00	2,900.00	2,651.26	2,644.24	10.30	9.30	90.247	-5.17	1,198.73	1,226.14	1,206.91	19.23	63.777	
3,000.00	3,000.00	2,725.64	2,716.61	10.66	9.57	90.502	-10.65	1,214.97	1,248.09	1,228.32	19.77	63.140	
3,100.00	3,099.99	2,800.00	2,788.62	11.01	9.84	90.748	-16.59	1,232.54	1,273.04	1,252.75	20.29	62.736	
3,200.00	3,199.91	2,871.32	2,857.33	11.34	10.10	90.949	-22.70	1,250.64	1,302.11	1,281.33	20.78	62.654	
3,300.00	3,299.69	2,955.21	2,937.79	11.68	10.40	91.160	-30.30	1,273.16	1,334.94	1,313.58	21.36	62.504	
3,400.00	3,399.27	3,048.67	3,027.38	12.02	10.75	91.356	-38.81	1,298.37	1,370.23	1,348.23	22.00	62.280	
3,500.00	3,498.57	3,141.30	3,116.17	12.36	11.10	91.495	-47.25	1,323.36	1,407.76	1,385.12	22.64	62.174	SF
3,600.00	3,597.54	3,233.04	3,204.11	12.70	11.44	91.583	-55.60	1,348.12	1,447.50	1,424.22	23.28	62.179	
3,700.00	3,696.09	3,323.82	3,291.13	13.04	11.79	91.623	-63.87	1,372.61	1,489.43	1,465.51	23.91	62.286	
3,800.00	3,794.16	3,413.58	3,377.17	13.39	12.13	91.618	-72.05	1,396.83	1,533.50	1,508.96	24.54	62.487	
3,900.00	3,891.70	3,502.26	3,462.18	13.74	12.48	91.572	-80.12	1,420.75	1,579.69	1,554.53	25.16	62.775	
4,000.00	3,988.62	3,589.80	3,546.09	14.09	12.81	91.489	-88.10	1,444.37	1,627.98	1,602.19	25.78	63.144	
4,100.00	4,085.12	3,676.59	3,629.29	14.44	13.15	91.386	-96.00	1,467.79	1,677.56	1,651.17	26.40	63.556	
4,200.00	4,181.62	3,763.37	3,712.48	14.80	13.49	91.290	-103.91	1,491.21	1,727.17	1,700.16	27.01	63.949	
4,300.00	4,278.12	3,850.16	3,795.67	15.16	13.83	91.198	-111.81	1,514.62	1,776.78	1,749.16	27.62	64.319	
4,400.00	4,374.62	3,936.94	3,878.86	15.52	14.17	91.112	-119.72	1,538.04	1,826.40	1,798.16	28.24	64.668	
4,500.00	4,471.12	4,023.72	3,962.05	15.89	14.52	91.030	-127.62	1,561.45	1,876.02	1,847.16	28.86	64.997	
4,600.00	4,567.62	4,110.50	4,045.24	16.26	14.86	90.952	-135.53	1,584.87	1,925.64	1,896.16	29.49	65.308	
4,700.00	4,664.11	4,197.29	4,128.43	16.63	15.21	90.879	-143.43	1,608.28	1,975.27	1,945.16	30.11	65.601	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 123H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	2.00	0.00	0.01	89.998	0.04	1,084.23	1,084.23				
100.00	100.00	102.00	102.00	0.26	0.27	89.998	0.04	1,084.23	1,084.23	1,083.69	0.53	2,029.917	
200.00	200.00	202.00	202.00	0.62	0.63	89.998	0.04	1,084.23	1,084.23	1,082.97	1.25	866.641	
300.00	300.00	302.00	302.00	0.98	0.99	89.998	0.04	1,084.23	1,084.23	1,082.26	1.97	550.925	
400.00	400.00	402.00	402.00	1.34	1.35	89.998	0.04	1,084.23	1,084.23	1,081.54	2.68	403.816	
500.00	500.00	502.00	502.00	1.70	1.70	89.998	0.04	1,084.23	1,084.23	1,080.82	3.40	318.712	
600.00	600.00	602.00	602.00	2.06	2.06	89.998	0.04	1,084.23	1,084.23	1,080.11	4.12	263.236	
700.00	700.00	702.00	702.00	2.41	2.42	89.998	0.04	1,084.23	1,084.23	1,079.39	4.84	224.209	
800.00	800.00	802.00	802.00	2.77	2.78	89.998	0.04	1,084.23	1,084.23	1,078.67	5.55	195.260	
900.00	900.00	902.00	902.00	3.13	3.14	89.998	0.04	1,084.23	1,084.23	1,077.96	6.27	172.932	
1,000.00	1,000.00	1,002.00	1,002.00	3.49	3.50	89.998	0.04	1,084.23	1,084.23	1,077.24	6.99	155.186	
1,100.00	1,100.00	1,102.00	1,102.00	3.85	3.86	89.998	0.04	1,084.23	1,084.23	1,076.52	7.70	140.744	
1,165.99	1,165.99	1,167.99	1,167.99	4.08	4.09	89.998	0.04	1,084.23	1,084.23	1,076.05	8.18	132.600	CC
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	89.998	0.04	1,084.23	1,084.23	1,075.81	8.41	128.870	
1,300.00	1,300.00	1,296.54	1,296.54	4.57	4.54	90.039	-0.73	1,084.47	1,084.48	1,075.38	9.10	119.165	ES
1,400.00	1,400.00	1,391.14	1,391.11	4.92	4.85	90.158	-3.00	1,085.18	1,085.23	1,075.47	9.77	111.097	
1,500.00	1,500.00	1,485.64	1,485.52	5.28	5.16	90.356	-6.75	1,086.35	1,086.49	1,076.06	10.44	104.086	
1,600.00	1,600.00	1,579.98	1,579.70	5.64	5.47	90.631	-11.98	1,087.98	1,088.27	1,077.16	11.11	97.948	
1,700.00	1,700.00	1,674.11	1,673.57	6.00	5.79	90.981	-18.67	1,090.07	1,090.60	1,078.82	11.78	92.542	
1,800.00	1,800.00	1,767.99	1,767.06	6.36	6.11	91.405	-26.81	1,092.61	1,093.50	1,081.04	12.46	87.759	
1,900.00	1,900.00	1,864.36	1,862.89	6.72	6.44	91.908	-36.50	1,095.64	1,096.94	1,083.80	13.15	83.436	
2,000.00	2,000.00	1,963.78	1,961.74	7.07	6.78	92.434	-46.71	1,098.83	1,100.55	1,086.71	13.85	79.475	
2,100.00	2,100.00	2,063.20	2,060.58	7.43	7.13	92.956	-56.91	1,102.01	1,104.26	1,089.71	14.55	75.889	
2,200.00	2,200.00	2,162.62	2,159.42	7.79	7.48	93.475	-67.12	1,105.20	1,108.06	1,092.80	15.26	72.631	
2,300.00	2,300.00	2,262.04	2,258.27	8.15	7.83	93.991	-77.33	1,108.39	1,111.94	1,095.98	15.96	69.659	
2,400.00	2,400.00	2,361.46	2,357.11	8.51	8.18	94.503	-87.54	1,111.58	1,115.92	1,099.25	16.67	66.938	
2,500.00	2,500.00	2,460.88	2,455.95	8.87	8.53	95.011	-97.74	1,114.77	1,119.99	1,102.61	17.38	64.439	
2,600.00	2,600.00	2,560.30	2,554.80	9.23	8.88	95.516	-107.95	1,117.95	1,124.14	1,106.05	18.09	62.138	
2,700.00	2,700.00	2,659.72	2,653.64	9.58	9.24	96.016	-118.16	1,121.14	1,128.39	1,109.58	18.80	60.012	
2,800.00	2,800.00	2,759.14	2,752.48	9.94	9.59	96.513	-128.37	1,124.33	1,132.72	1,113.20	19.52	58.043	
2,900.00	2,900.00	2,858.56	2,851.32	10.30	9.95	97.007	-138.58	1,127.52	1,137.13	1,116.90	20.23	56.215	
3,000.00	3,000.00	2,957.98	2,950.17	10.66	10.31	97.496	-148.78	1,130.70	1,141.63	1,120.69	20.94	54.514	
3,100.00	3,099.99	3,057.40	3,049.01	11.01	10.67	97.950	-158.99	1,133.89	1,147.35	1,125.71	21.64	53.010	
3,200.00	3,199.91	3,156.77	3,147.80	11.34	11.03	98.334	-169.19	1,137.08	1,155.41	1,133.07	22.33	51.731	
3,300.00	3,299.69	3,256.02	3,246.48	11.68	11.38	98.648	-179.38	1,140.26	1,165.77	1,142.75	23.03	50.628	
3,400.00	3,399.27	3,355.09	3,344.97	12.02	11.74	98.892	-189.56	1,143.44	1,178.42	1,154.70	23.72	49.684	
3,500.00	3,498.57	3,453.91	3,443.22	12.36	12.10	99.065	-199.70	1,146.61	1,193.31	1,168.90	24.41	48.887	
3,600.00	3,597.54	3,552.40	3,541.14	12.70	12.46	99.170	-209.81	1,149.76	1,210.42	1,185.32	25.10	48.225	
3,700.00	3,696.09	3,650.51	3,638.68	13.04	12.81	99.210	-219.89	1,152.91	1,229.75	1,203.96	25.79	47.686	
3,800.00	3,794.16	3,748.17	3,735.77	13.39	13.17	99.186	-229.91	1,156.04	1,251.26	1,224.79	26.48	47.262	
3,900.00	3,891.70	3,845.30	3,832.34	13.74	13.52	99.101	-239.89	1,159.16	1,274.95	1,247.80	27.16	46.943	
4,000.00	3,988.62	3,941.84	3,928.32	14.09	13.87	98.961	-249.80	1,162.25	1,300.81	1,272.97	27.84	46.723	
4,100.00	4,085.12	4,037.98	4,023.91	14.44	14.23	98.790	-259.67	1,165.33	1,328.04	1,299.52	28.52	46.564	
4,200.00	4,181.62	4,134.12	4,119.49	14.80	14.58	98.625	-269.54	1,168.42	1,355.29	1,326.09	29.20	46.412	
4,300.00	4,278.12	4,230.26	4,215.06	15.16	14.93	98.467	-279.41	1,171.50	1,382.55	1,352.67	29.88	46.264	
4,400.00	4,374.62	4,326.39	4,310.64	15.52	15.28	98.315	-289.28	1,174.58	1,409.83	1,379.26	30.57	46.120	
4,500.00	4,471.12	4,422.53	4,406.22	15.89	15.63	98.169	-299.15	1,177.66	1,437.11	1,405.86	31.26	45.980	
4,600.00	4,567.62	4,518.67	4,501.80	16.26	15.98	98.028	-309.02	1,180.75	1,464.41	1,432.46	31.94	45.844	
4,700.00	4,664.11	4,614.80	4,597.38	16.63	16.33	97.892	-318.89	1,183.83	1,491.71	1,459.07	32.63	45.711	
4,800.00	4,760.61	4,710.94	4,692.96	17.00	16.68	97.761	-328.76	1,186.91	1,519.02	1,485.69	33.32	45.583	
4,900.00	4,857.11	4,807.08	4,788.54	17.37	17.04	97.635	-338.64	1,190.00	1,546.34	1,512.32	34.02	45.458	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 123H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.61	4,903.21	4,884.12	17.75	17.39	97.513	-348.51	1,193.08	1,573.66	1,538.95	34.71	45.336	
5,100.00	5,050.11	4,999.35	4,979.70	18.12	17.74	97.396	-358.38	1,196.16	1,600.99	1,565.59	35.41	45.218	
5,200.00	5,146.61	5,095.49	5,075.27	18.50	18.09	97.282	-368.25	1,199.24	1,628.33	1,592.23	36.10	45.103	
5,300.00	5,243.11	5,191.62	5,170.85	18.88	18.45	97.172	-378.12	1,202.33	1,655.68	1,618.88	36.80	44.991	
5,400.00	5,339.61	5,287.76	5,266.43	19.26	18.80	97.066	-387.99	1,205.41	1,683.03	1,645.53	37.50	44.882	
5,500.00	5,436.11	5,383.90	5,362.01	19.65	19.15	96.963	-397.86	1,208.49	1,710.38	1,672.18	38.20	44.777	
5,600.00	5,532.60	5,480.03	5,457.59	20.03	19.50	96.863	-407.73	1,211.57	1,737.74	1,698.85	38.90	44.674	
5,700.00	5,629.10	5,576.17	5,553.17	20.41	19.86	96.767	-417.60	1,214.66	1,765.11	1,725.51	39.60	44.574	
5,800.00	5,725.60	5,672.31	5,648.75	20.80	20.21	96.673	-427.47	1,217.74	1,792.48	1,752.18	40.30	44.476	
5,900.00	5,822.10	5,768.44	5,744.33	21.19	20.56	96.582	-437.34	1,220.82	1,819.86	1,778.85	41.00	44.382	
6,000.00	5,918.60	5,864.58	5,839.91	21.58	20.92	96.494	-447.21	1,223.90	1,847.24	1,805.53	41.71	44.289	
6,100.00	6,015.10	5,968.67	5,943.42	21.96	21.30	96.424	-457.60	1,227.15	1,874.51	1,832.06	42.45	44.156	
6,200.00	6,111.60	6,079.72	6,054.05	22.35	21.70	96.323	-466.87	1,230.04	1,901.12	1,857.89	43.23	43.978	
6,300.00	6,208.10	6,191.03	6,165.10	22.74	22.11	96.167	-474.11	1,232.31	1,926.99	1,882.99	44.00	43.793	
6,400.00	6,304.59	6,302.51	6,276.45	23.14	22.51	95.958	-479.30	1,233.93	1,952.14	1,907.37	44.77	43.602	
6,500.00	6,401.09	6,414.08	6,387.97	23.53	22.91	95.696	-482.42	1,234.90	1,976.58	1,931.04	45.54	43.405 SF	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 124H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	2.00	0.00	0.01	89.998	0.04	1,189.23	1,189.23				
100.00	100.00	102.00	102.00	0.26	0.27	89.998	0.04	1,189.23	1,189.23	1,188.69	0.53	2,226.501	
200.00	200.00	202.00	202.00	0.62	0.63	89.998	0.04	1,189.23	1,189.23	1,187.97	1.25	950.570	
300.00	300.00	302.00	302.00	0.98	0.99	89.998	0.04	1,189.23	1,189.23	1,187.26	1.97	604.279	
400.00	400.00	402.00	402.00	1.34	1.35	89.998	0.04	1,189.23	1,189.23	1,186.54	2.68	442.922	
500.00	500.00	502.00	502.00	1.70	1.70	89.998	0.04	1,189.23	1,189.23	1,185.82	3.40	349.577	
600.00	600.00	602.00	602.00	2.06	2.06	89.998	0.04	1,189.23	1,189.23	1,185.11	4.12	288.728	
700.00	700.00	702.00	702.00	2.41	2.42	89.998	0.04	1,189.23	1,189.23	1,184.39	4.84	245.922	
800.00	800.00	802.00	802.00	2.77	2.78	89.998	0.04	1,189.23	1,189.23	1,183.67	5.55	214.170	
900.00	900.00	902.00	902.00	3.13	3.14	89.998	0.04	1,189.23	1,189.23	1,182.96	6.27	189.679	
1,000.00	1,000.00	1,002.00	1,002.00	3.49	3.50	89.998	0.04	1,189.23	1,189.23	1,182.24	6.99	170.215	
1,100.00	1,100.00	1,102.00	1,102.00	3.85	3.86	89.998	0.04	1,189.23	1,189.23	1,181.52	7.70	154.374	
1,165.99	1,165.99	1,167.99	1,167.99	4.08	4.09	89.998	0.04	1,189.23	1,189.23	1,181.05	8.18	145.442	CC
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	89.998	0.04	1,189.23	1,189.23	1,180.81	8.41	141.351	ES
1,300.00	1,300.00	1,285.85	1,285.84	4.57	4.50	90.011	-0.23	1,189.81	1,189.92	1,180.85	9.07	131.221	
1,400.00	1,400.00	1,369.97	1,369.95	4.92	4.79	90.049	-1.02	1,191.51	1,191.94	1,182.23	9.71	122.775	
1,500.00	1,500.00	1,454.03	1,453.94	5.28	5.07	90.112	-2.34	1,194.33	1,195.30	1,184.95	10.35	115.521	
1,600.00	1,600.00	1,537.97	1,537.77	5.64	5.36	90.199	-4.17	1,198.26	1,199.98	1,189.00	10.99	109.237	
1,700.00	1,700.00	1,621.77	1,621.39	6.00	5.65	90.310	-6.52	1,203.29	1,206.00	1,194.38	11.62	103.766	
1,800.00	1,800.00	1,700.00	1,699.37	6.36	5.92	90.435	-9.18	1,208.98	1,213.37	1,201.13	12.24	99.166	
1,900.00	1,900.00	1,788.79	1,787.75	6.72	6.23	90.600	-12.74	1,216.62	1,222.03	1,209.14	12.89	94.797	
2,000.00	2,000.00	1,871.94	1,870.40	7.07	6.52	90.777	-16.60	1,224.89	1,232.05	1,218.53	13.52	91.113	
2,100.00	2,100.00	1,954.81	1,952.63	7.43	6.81	90.973	-20.95	1,234.21	1,243.40	1,229.25	14.15	87.872	
2,200.00	2,200.00	2,037.37	2,034.39	7.79	7.10	91.187	-25.79	1,244.57	1,256.07	1,241.30	14.77	85.016	
2,300.00	2,300.00	2,119.57	2,115.63	8.15	7.39	91.418	-31.10	1,255.95	1,270.08	1,254.69	15.40	82.500	
2,400.00	2,400.00	2,200.00	2,194.93	8.51	7.68	91.661	-36.77	1,268.10	1,285.42	1,269.42	16.00	80.317	
2,500.00	2,500.00	2,282.81	2,276.38	8.87	7.98	91.926	-43.10	1,281.67	1,302.09	1,285.46	16.62	78.330	
2,600.00	2,600.00	2,371.55	2,363.43	9.23	8.30	92.224	-50.37	1,297.23	1,319.95	1,302.68	17.27	76.425	
2,700.00	2,700.00	2,469.62	2,459.61	9.58	8.66	92.547	-58.48	1,314.60	1,338.04	1,320.07	17.97	74.462	
2,800.00	2,800.00	2,567.69	2,555.79	9.94	9.02	92.862	-66.59	1,331.98	1,356.18	1,337.51	18.67	72.644	
2,900.00	2,900.00	2,665.76	2,651.97	10.30	9.38	93.168	-74.69	1,349.35	1,374.35	1,354.98	19.37	70.956	
3,000.00	3,000.00	2,763.83	2,748.15	10.66	9.74	93.467	-82.80	1,366.72	1,392.56	1,372.49	20.07	69.384	
3,100.00	3,099.99	2,861.71	2,844.14	11.01	10.11	93.735	-90.90	1,384.06	1,411.97	1,391.21	20.76	68.015	
3,200.00	3,199.91	2,959.17	2,939.72	11.34	10.47	93.948	-98.96	1,401.33	1,433.72	1,412.29	21.44	66.880	
3,300.00	3,299.69	3,056.15	3,034.83	11.68	10.83	94.109	-106.97	1,418.51	1,457.79	1,435.68	22.11	65.924	
3,400.00	3,399.27	3,152.57	3,129.39	12.02	11.19	94.218	-114.95	1,435.59	1,484.14	1,461.36	22.79	65.131	
3,500.00	3,498.57	3,248.37	3,223.34	12.36	11.55	94.279	-122.87	1,452.56	1,512.76	1,489.30	23.46	64.487	
3,600.00	3,597.54	3,343.49	3,316.63	12.70	11.91	94.293	-130.73	1,469.41	1,543.61	1,519.48	24.13	63.980	
3,700.00	3,696.09	3,437.86	3,409.17	13.04	12.27	94.264	-138.54	1,486.12	1,576.68	1,551.89	24.79	63.600	
3,800.00	3,794.16	3,531.41	3,500.92	13.39	12.62	94.193	-146.27	1,502.70	1,611.94	1,586.49	25.45	63.336	
3,900.00	3,891.70	3,624.09	3,591.80	13.74	12.97	94.084	-153.93	1,519.11	1,649.38	1,623.28	26.11	63.180	
4,000.00	3,988.62	3,715.82	3,681.77	14.09	13.32	93.940	-161.52	1,535.36	1,688.98	1,662.22	26.76	63.125	
4,100.00	4,085.12	3,806.93	3,771.12	14.44	13.67	93.779	-169.05	1,551.50	1,729.92	1,702.52	27.40	63.130	
4,200.00	4,181.62	3,898.03	3,860.46	14.80	14.01	93.625	-176.58	1,567.64	1,770.90	1,742.85	28.05	63.136	
4,300.00	4,278.12	3,989.12	3,949.80	15.16	14.36	93.477	-184.12	1,583.78	1,811.89	1,783.20	28.70	63.137	
4,400.00	4,374.62	4,080.22	4,039.14	15.52	14.70	93.336	-191.65	1,599.92	1,852.89	1,823.55	29.35	63.135	
4,500.00	4,471.12	4,171.32	4,128.48	15.89	15.05	93.202	-199.18	1,616.06	1,893.91	1,863.91	30.00	63.129	
4,600.00	4,567.62	4,262.42	4,217.83	16.26	15.40	93.073	-206.71	1,632.19	1,934.93	1,904.27	30.65	63.121	
4,700.00	4,664.11	4,353.52	4,307.17	16.63	15.75	92.949	-214.25	1,648.33	1,975.96	1,944.65	31.31	63.110	SF

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp E2-1 (113H,116H,123H,124H,126H) - Double Stamp Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	2.00	0.00	0.01	89.998	0.04	1,109.23	1,109.23				
100.00	100.00	102.00	102.00	0.26	0.27	89.998	0.04	1,109.23	1,109.23	1,108.69	0.53	2,076.722	
200.00	200.00	202.00	202.00	0.62	0.63	89.998	0.04	1,109.23	1,109.23	1,107.97	1.25	886.624	
300.00	300.00	302.00	302.00	0.98	0.99	89.998	0.04	1,109.23	1,109.23	1,107.26	1.97	563.628	
400.00	400.00	402.00	402.00	1.34	1.35	89.998	0.04	1,109.23	1,109.23	1,106.54	2.68	413.127	
465.99	465.99	467.99	467.99	1.58	1.58	89.998	0.04	1,109.23	1,109.23	1,106.07	3.16	351.239	CC
500.00	500.00	500.00	500.00	1.70	1.70	89.998	0.04	1,109.23	1,109.23	1,105.83	3.39	326.750	
600.00	600.00	588.82	588.82	2.06	2.00	90.021	-0.40	1,109.75	1,109.83	1,105.77	4.06	273.414	ES
700.00	700.00	675.86	675.83	2.41	2.30	90.087	-1.69	1,111.29	1,111.60	1,106.89	4.71	235.949	
800.00	800.00	762.81	762.72	2.77	2.60	90.197	-3.83	1,113.84	1,114.54	1,109.18	5.37	207.742	
900.00	900.00	844.24	844.03	3.13	2.88	90.334	-6.52	1,117.27	1,118.79	1,112.79	6.00	186.402	
1,000.00	1,000.00	921.45	921.04	3.49	3.15	90.476	-9.32	1,122.02	1,124.98	1,118.36	6.62	169.827	
1,100.00	1,100.00	1,000.00	999.27	3.85	3.42	90.627	-12.35	1,128.45	1,133.18	1,125.93	7.25	156.286	
1,200.00	1,200.00	1,075.10	1,073.91	4.21	3.69	90.778	-15.42	1,136.08	1,143.39	1,135.52	7.86	145.430	
1,300.00	1,300.00	1,151.42	1,149.59	4.57	3.97	90.936	-18.71	1,145.34	1,155.58	1,147.11	8.48	136.352	
1,400.00	1,400.00	1,227.32	1,224.66	4.92	4.24	91.099	-22.17	1,156.02	1,169.76	1,160.67	9.08	128.777	
1,500.00	1,500.00	1,300.00	1,296.32	5.28	4.51	91.258	-25.63	1,167.65	1,185.90	1,176.23	9.67	122.624	
1,600.00	1,600.00	1,377.66	1,372.63	5.64	4.79	91.431	-29.51	1,181.56	1,203.98	1,193.70	10.28	117.147	
1,700.00	1,700.00	1,452.00	1,445.38	6.00	5.07	91.598	-33.38	1,196.32	1,223.99	1,213.13	10.87	112.653	
1,800.00	1,800.00	1,525.70	1,517.21	6.36	5.34	91.766	-37.38	1,212.34	1,245.91	1,234.46	11.44	108.863	
1,900.00	1,900.00	1,600.00	1,589.28	6.72	5.63	91.936	-41.57	1,229.89	1,269.70	1,257.68	12.02	105.610	
2,000.00	2,000.00	1,671.06	1,657.88	7.07	5.90	92.098	-45.73	1,247.97	1,295.35	1,282.77	12.58	102.982	
2,100.00	2,100.00	1,760.17	1,743.57	7.43	6.24	92.299	-51.07	1,271.84	1,322.37	1,309.14	13.23	99.958	
2,200.00	2,200.00	1,856.31	1,835.99	7.79	6.62	92.508	-56.84	1,297.66	1,349.48	1,335.56	13.92	96.946	
2,300.00	2,300.00	1,952.45	1,928.42	8.15	7.00	92.709	-62.61	1,323.47	1,376.61	1,362.00	14.61	94.213	
2,400.00	2,400.00	2,048.59	2,020.85	8.51	7.38	92.901	-68.39	1,349.29	1,403.76	1,388.45	15.30	91.722	
2,500.00	2,500.00	2,144.73	2,113.28	8.87	7.76	93.087	-74.16	1,375.11	1,430.92	1,414.92	16.00	89.442	
2,600.00	2,600.00	2,240.87	2,205.71	9.23	8.14	93.265	-79.93	1,400.92	1,458.09	1,441.40	16.69	87.349	
2,700.00	2,700.00	2,337.01	2,298.14	9.58	8.53	93.438	-85.70	1,426.74	1,485.27	1,467.89	17.39	85.421	
2,800.00	2,800.00	2,433.15	2,390.57	9.94	8.91	93.603	-91.47	1,452.56	1,512.47	1,494.39	18.08	83.639	
2,900.00	2,900.00	2,529.29	2,482.99	10.30	9.30	93.763	-97.25	1,478.37	1,539.68	1,520.90	18.78	81.987	
3,000.00	3,000.00	2,625.43	2,575.42	10.66	9.69	93.918	-103.02	1,504.19	1,566.90	1,547.42	19.48	80.453	
3,100.00	3,099.99	2,721.26	2,667.55	11.01	10.08	94.046	-108.77	1,529.92	1,595.26	1,575.10	20.16	79.128	
3,200.00	3,199.91	2,816.43	2,759.05	11.34	10.47	94.127	-114.49	1,555.48	1,625.89	1,605.05	20.83	78.048	
3,300.00	3,299.69	2,910.87	2,849.84	11.68	10.85	94.163	-120.16	1,580.84	1,658.75	1,637.25	21.50	77.151	
3,400.00	3,399.27	3,004.51	2,939.87	12.02	11.23	94.158	-125.78	1,605.99	1,693.82	1,671.65	22.16	76.422	
3,500.00	3,498.57	3,097.30	3,029.08	12.36	11.61	94.112	-131.35	1,630.90	1,731.07	1,708.25	22.82	75.845	
3,600.00	3,597.54	3,189.17	3,117.40	12.70	11.99	94.030	-136.86	1,655.57	1,770.49	1,747.01	23.48	75.409	
3,700.00	3,696.09	3,280.05	3,204.77	13.04	12.36	93.914	-142.32	1,679.98	1,812.05	1,787.93	24.13	75.103	
3,800.00	3,794.16	3,369.89	3,291.14	13.39	12.73	93.767	-147.72	1,704.10	1,855.73	1,830.96	24.77	74.915	
3,900.00	3,891.70	3,458.62	3,376.45	13.74	13.09	93.591	-153.04	1,727.93	1,901.51	1,876.10	25.41	74.839	SF
4,000.00	3,988.62	3,546.18	3,460.63	14.09	13.45	93.389	-158.30	1,751.44	1,949.36	1,923.32	26.04	74.865	
4,100.00	4,085.12	3,632.98	3,544.08	14.44	13.81	93.176	-163.51	1,774.75	1,998.51	1,971.85	26.66	74.953	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 111H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-76.599	25.04	-105.11	108.06				
100.00	100.00	100.00	100.00	0.26	0.26	-76.599	25.04	-105.11	108.06	107.53	0.53	205.059	
200.00	200.00	200.00	200.00	0.62	0.62	-76.599	25.04	-105.11	108.06	106.81	1.24	86.870	
300.00	300.00	300.00	300.00	0.98	0.98	-76.599	25.04	-105.11	108.06	106.10	1.96	55.107	
400.00	400.00	400.00	400.00	1.34	1.34	-76.599	25.04	-105.11	108.06	105.38	2.68	40.353	
500.00	500.00	500.00	500.00	1.70	1.70	-76.599	25.04	-105.11	108.06	104.66	3.39	31.831	
600.00	600.00	600.00	600.00	2.06	2.06	-76.599	25.04	-105.11	108.06	103.95	4.11	26.281	
700.00	700.00	700.00	700.00	2.41	2.41	-76.599	25.04	-105.11	108.06	103.23	4.83	22.378	
800.00	800.00	800.00	800.00	2.77	2.77	-76.599	25.04	-105.11	108.06	102.51	5.55	19.485	CC
900.00	900.00	897.62	897.61	3.13	3.11	-76.940	24.66	-106.30	109.15	102.91	6.24	17.486	
1,000.00	1,000.00	995.11	995.03	3.49	3.44	-77.923	23.50	-109.85	112.45	105.52	6.93	16.231	
1,100.00	1,100.00	1,092.35	1,092.07	3.85	3.78	-79.435	21.59	-115.75	118.01	110.40	7.61	15.502	
1,200.00	1,200.00	1,189.22	1,188.54	4.21	4.11	-81.321	18.92	-123.96	125.92	117.62	8.29	15.181	
1,300.00	1,300.00	1,285.58	1,284.27	4.57	4.45	-83.414	15.52	-134.43	136.23	127.26	8.97	15.187	
1,400.00	1,400.00	1,381.32	1,379.08	4.92	4.79	-85.568	11.40	-147.10	149.02	139.38	9.64	15.461	
1,500.00	1,500.00	1,476.34	1,472.81	5.28	5.13	-87.670	6.59	-161.91	164.31	154.02	10.30	15.958	
1,600.00	1,600.00	1,570.51	1,565.30	5.64	5.48	-89.644	1.11	-178.77	182.11	171.17	10.95	16.637	
1,700.00	1,700.00	1,663.75	1,656.41	6.00	5.82	-91.451	-5.01	-197.60	202.41	190.83	11.58	17.474	
1,800.00	1,800.00	1,755.95	1,746.00	6.36	6.16	-93.075	-11.73	-218.29	225.17	212.96	12.21	18.444	
1,900.00	1,900.00	1,850.03	1,836.94	6.72	6.52	-94.546	-19.18	-241.21	250.06	237.20	12.86	19.445	
2,000.00	2,000.00	1,946.62	1,930.24	7.07	6.89	-95.797	-26.90	-264.99	275.33	261.79	13.55	20.327	
2,100.00	2,100.00	2,043.22	2,023.55	7.43	7.26	-96.838	-34.63	-288.77	300.72	286.48	14.23	21.128	
2,200.00	2,200.00	2,139.81	2,116.85	7.79	7.63	-97.717	-42.35	-312.54	326.18	311.25	14.92	21.858	
2,300.00	2,300.00	2,236.40	2,210.15	8.15	8.01	-98.469	-50.08	-336.32	351.70	336.09	15.61	22.526	
2,400.00	2,400.00	2,332.99	2,303.45	8.51	8.39	-99.120	-57.80	-360.10	377.27	360.96	16.30	23.139	
2,500.00	2,500.00	2,429.59	2,396.75	8.87	8.77	-99.687	-65.53	-383.87	402.88	385.88	17.00	23.703	
2,600.00	2,600.00	2,526.18	2,490.05	9.23	9.15	-100.187	-73.25	-407.65	428.52	410.83	17.69	24.223	
2,700.00	2,700.00	2,622.77	2,583.35	9.58	9.53	-100.631	-80.98	-431.42	454.19	435.81	18.39	24.704	
2,800.00	2,800.00	2,719.36	2,676.65	9.94	9.92	-101.027	-88.71	-455.20	479.89	460.81	19.08	25.151	
2,900.00	2,900.00	2,815.96	2,769.96	10.30	10.30	-101.383	-96.43	-478.98	505.60	485.82	19.78	25.567	
3,000.00	3,000.00	2,912.55	2,863.26	10.66	10.69	-101.704	-104.16	-502.75	531.33	510.86	20.47	25.954	
3,100.00	3,099.99	3,009.47	2,956.87	11.01	11.08	-101.975	-111.91	-526.61	555.82	534.66	21.16	26.271	
3,200.00	3,199.91	3,107.00	3,051.08	11.34	11.47	-102.181	-119.71	-550.62	577.81	555.97	21.83	26.463	
3,300.00	3,299.69	3,205.07	3,145.81	11.68	11.86	-102.333	-127.55	-574.76	597.27	574.76	22.52	26.525	
3,400.00	3,399.27	3,303.62	3,241.00	12.02	12.26	-102.437	-135.43	-599.02	614.20	590.99	23.21	26.468	
3,500.00	3,498.57	3,402.58	3,336.59	12.36	12.66	-102.499	-143.35	-623.38	628.57	604.67	23.90	26.304	
3,600.00	3,597.54	3,501.88	3,432.50	12.70	13.06	-102.523	-151.29	-647.82	640.37	615.78	24.59	26.040	
3,700.00	3,696.09	3,602.27	3,529.48	13.04	13.46	-102.523	-159.43	-672.48	649.58	624.29	25.30	25.678	
3,800.00	3,794.16	3,704.82	3,628.55	13.39	13.88	-102.676	-169.67	-696.91	655.90	629.88	26.02	25.206	
3,900.00	3,891.70	3,804.84	3,725.16	13.74	14.28	-102.911	-181.01	-720.18	659.40	632.68	26.72	24.677	
4,000.00	3,988.62	3,904.81	3,821.72	14.09	14.69	-103.111	-192.34	-743.44	660.33	632.90	27.42	24.081	
4,100.00	4,085.12	4,004.79	3,918.29	14.44	15.09	-103.291	-203.67	-766.71	659.63	631.51	28.12	23.456	
4,200.00	4,181.62	4,104.77	4,014.86	14.80	15.50	-103.470	-215.00	-789.97	658.91	630.09	28.82	22.859	
4,300.00	4,278.12	4,204.74	4,111.43	15.16	15.90	-103.650	-226.33	-813.23	658.20	628.67	29.53	22.290	
4,400.00	4,374.62	4,304.72	4,208.01	15.52	16.31	-103.831	-237.67	-836.49	657.50	627.26	30.23	21.747	
4,500.00	4,471.12	4,404.70	4,304.58	15.89	16.71	-104.011	-249.00	-859.76	656.80	625.86	30.94	21.227	
4,600.00	4,567.62	4,504.68	4,401.15	16.26	17.12	-104.192	-260.33	-883.02	656.11	624.46	31.65	20.730	
4,700.00	4,664.11	4,604.65	4,497.72	16.63	17.53	-104.374	-271.66	-906.28	655.42	623.06	32.36	20.255	
4,800.00	4,760.61	4,704.63	4,594.29	17.00	17.93	-104.556	-282.99	-929.54	654.74	621.67	33.07	19.799	
4,900.00	4,857.11	4,804.61	4,690.86	17.37	18.34	-104.738	-294.33	-952.81	654.07	620.29	33.78	19.362	
5,000.00	4,953.61	4,904.59	4,787.43	17.75	18.75	-104.921	-305.66	-976.07	653.40	618.91	34.49	18.943	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 111H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,050.11	5,004.56	4,884.00	18.12	19.16	-105.104	-316.99	-999.33	652.74	617.54	35.21	18.541	
5,200.00	5,146.61	5,104.54	4,980.57	18.50	19.56	-105.288	-328.32	-1,022.60	652.09	616.17	35.92	18.154	
5,300.00	5,243.11	5,204.52	5,077.14	18.88	19.97	-105.471	-339.65	-1,045.86	651.44	614.80	36.63	17.782	
5,400.00	5,339.61	5,304.49	5,173.71	19.26	20.38	-105.656	-350.98	-1,069.12	650.80	613.45	37.35	17.424	
5,500.00	5,436.11	5,404.47	5,270.28	19.65	20.79	-105.840	-362.32	-1,092.38	650.16	612.10	38.07	17.080	
5,600.00	5,532.60	5,504.45	5,366.85	20.03	21.20	-106.025	-373.65	-1,115.65	649.53	610.75	38.78	16.748	
5,700.00	5,629.10	5,604.43	5,463.43	20.41	21.61	-106.211	-384.98	-1,138.91	648.91	609.41	39.50	16.428	
5,800.00	5,725.60	5,704.40	5,560.00	20.80	22.01	-106.396	-396.31	-1,162.17	648.29	608.08	40.22	16.120	
5,900.00	5,822.10	5,804.38	5,656.57	21.19	22.42	-106.583	-407.64	-1,185.43	647.68	606.75	40.94	15.822	
6,000.00	5,918.60	5,904.36	5,753.14	21.58	22.83	-106.769	-418.98	-1,208.70	647.08	605.42	41.65	15.534	
6,100.00	6,015.10	6,004.34	5,849.71	21.96	23.24	-106.956	-430.31	-1,231.96	646.48	604.11	42.37	15.257	
6,200.00	6,111.60	6,113.47	5,955.23	22.35	23.69	-107.171	-442.51	-1,257.01	645.57	602.39	43.17	14.953	
6,300.00	6,208.10	6,233.39	6,071.94	22.74	24.16	-107.381	-454.57	-1,281.77	642.01	597.97	44.04	14.577	
6,400.00	6,304.59	6,352.95	6,189.09	23.14	24.63	-107.540	-465.00	-1,303.17	635.36	590.49	44.87	14.160	
6,500.00	6,401.09	6,471.91	6,306.35	23.53	25.08	-107.650	-473.77	-1,321.18	625.63	579.97	45.66	13.702	
6,600.00	6,497.59	6,590.05	6,423.36	23.92	25.52	-107.712	-480.89	-1,335.80	612.85	566.45	46.41	13.206	
6,700.00	6,594.09	6,707.15	6,539.79	24.32	25.94	-107.724	-486.39	-1,347.08	597.06	549.94	47.11	12.673	
6,800.00	6,690.59	6,823.02	6,655.31	24.71	26.34	-107.686	-490.28	-1,355.08	578.29	530.51	47.77	12.105	
6,900.00	6,787.09	6,937.46	6,769.62	25.10	26.73	-107.592	-492.62	-1,359.88	556.60	508.21	48.39	11.502	
7,000.00	6,883.59	7,050.30	6,882.43	25.50	27.10	-107.436	-493.46	-1,361.60	532.05	483.09	48.96	10.866	
7,100.00	6,980.09	7,147.95	6,980.09	25.90	27.40	-107.233	-493.47	-1,361.61	505.89	456.27	49.62	10.195	
7,200.00	7,076.59	7,244.45	7,076.59	26.29	27.70	-107.007	-493.47	-1,361.61	479.73	429.45	50.29	9.539	
7,300.00	7,173.08	7,340.95	7,173.08	26.69	28.00	-106.756	-493.47	-1,361.61	453.59	402.63	50.96	8.901	
7,400.00	7,269.58	7,437.45	7,269.58	27.09	28.30	-106.473	-493.47	-1,361.61	427.45	375.81	51.63	8.279	
7,500.00	7,366.08	7,533.95	7,366.08	27.49	28.60	-106.154	-493.47	-1,361.61	401.32	349.01	52.31	7.672	
7,600.00	7,462.58	7,630.44	7,462.58	27.88	28.90	-105.791	-493.47	-1,361.61	375.21	322.22	52.98	7.081	
7,700.00	7,559.08	7,726.94	7,559.08	28.28	29.21	-105.373	-493.47	-1,361.61	349.11	295.45	53.66	6.506	
7,800.00	7,655.58	7,823.44	7,655.58	28.68	29.51	-104.887	-493.47	-1,361.61	323.03	268.69	54.35	5.944	
7,900.00	7,752.08	7,919.94	7,752.08	29.08	29.82	-104.316	-493.47	-1,361.61	296.99	241.96	55.03	5.397	
8,000.00	7,848.58	8,016.44	7,848.58	29.48	30.13	-103.636	-493.47	-1,361.61	270.98	215.25	55.72	4.863	
8,100.00	7,945.08	8,112.94	7,945.08	29.88	30.43	-102.811	-493.47	-1,361.61	245.01	188.59	56.42	4.343	
8,200.00	8,041.64	8,209.51	8,041.64	30.28	30.74	-101.803	-493.47	-1,361.61	219.36	162.23	57.13	3.840	
8,300.00	8,138.76	8,306.63	8,138.76	30.68	31.05	-100.646	-493.47	-1,361.61	195.91	138.07	57.84	3.387	
8,400.00	8,236.47	8,404.33	8,236.47	31.07	31.37	-99.351	-493.47	-1,361.61	175.06	116.48	58.57	2.989	
8,500.00	8,334.70	8,503.70	8,335.82	31.45	31.69	-97.603	-492.57	-1,361.62	156.70	97.42	59.28	2.643	
8,600.00	8,433.39	8,602.42	8,433.42	31.83	31.99	-90.361	-478.59	-1,361.69	140.38	80.02	60.35	2.326	
8,700.00	8,532.47	8,692.76	8,519.45	32.19	32.25	-76.234	-451.30	-1,361.84	132.34	70.10	62.24	2.126	
8,704.45	8,536.88	8,696.54	8,522.94	32.21	32.26	-75.493	-449.87	-1,361.85	132.35	70.03	62.32	2.124	ES, SF
8,800.00	8,631.86	8,772.28	8,590.81	32.56	32.45	-59.208	-416.35	-1,362.03	143.28	80.36	62.92	2.277	
8,900.00	8,731.51	8,840.59	8,647.74	32.91	32.59	-44.843	-378.69	-1,362.24	177.52	116.87	60.64	2.927	
9,000.00	8,831.35	8,900.00	8,693.32	33.26	32.70	-34.854	-340.62	-1,362.45	230.15	172.90	57.24	4.021	
9,100.00	8,931.30	8,950.00	8,728.45	33.61	32.78	-28.635	-305.07	-1,362.64	294.85	240.88	53.97	5.464	
9,200.00	9,031.29	8,989.29	8,753.80	33.94	32.83	-25.099	-275.06	-1,362.81	367.39	316.42	50.97	7.208	
9,300.00	9,131.29	9,024.53	8,774.74	34.27	32.87	-22.547	-246.73	-1,362.96	445.30	396.59	48.71	9.142	
9,400.00	9,231.06	9,050.00	8,788.77	34.59	32.89	-21.178	-225.48	-1,363.08	524.26	477.89	46.37	11.307	
9,500.00	9,328.48	9,100.00	8,813.51	34.90	32.93	-19.194	-182.04	-1,363.32	596.40	551.12	45.28	13.172	
9,600.00	9,420.59	9,127.04	8,825.28	35.18	32.95	-19.130	-157.70	-1,363.45	660.46	617.53	42.93	15.383	
9,700.00	9,504.61	9,164.33	8,839.60	35.42	32.96	-19.004	-123.28	-1,363.64	716.10	674.98	41.13	17.412	
9,800.00	9,577.97	9,200.00	8,851.18	35.60	32.97	-19.559	-89.54	-1,363.83	762.66	723.27	39.39	19.362	
9,900.00	9,638.46	9,250.00	8,863.83	35.72	32.98	-19.595	-41.19	-1,364.09	799.76	761.55	38.22	20.926	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 111H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,684.22	9,280.86	8,869.51	35.79	32.98	-22.843	-10.86	-1,364.26	826.79	789.91	36.88	22.419	
10,100.00	9,713.87	9,320.56	8,874.41	35.81	32.98	-29.212	28.53	-1,364.47	843.82	807.69	36.12	23.360	
10,200.00	9,726.51	9,360.43	8,876.57	35.81	32.97	-59.987	68.33	-1,364.69	850.57	814.75	35.82	23.746	
10,300.00	9,726.69	9,438.66	8,876.33	35.80	32.96	-105.796	146.56	-1,365.12	850.52	814.70	35.82	23.748	
10,316.50	9,726.63	9,455.08	8,876.25	35.80	32.95	-107.525	162.97	-1,365.21	850.52	814.70	35.82	23.745	
10,400.00	9,726.34	9,538.27	8,875.81	35.79	32.94	-121.975	246.16	-1,365.67	850.57	814.70	35.87	23.715	
10,500.00	9,725.98	9,638.12	8,875.29	35.78	32.94	-157.766	346.01	-1,366.21	850.71	814.70	36.00	23.628	
10,600.00	9,725.63	9,738.09	8,874.77	35.77	32.93	179.231	445.98	-1,366.76	850.87	814.65	36.23	23.488	
10,700.00	9,725.27	9,838.09	8,874.24	35.76	32.94	179.329	545.98	-1,367.31	851.04	814.54	36.50	23.316	
10,800.00	9,724.91	9,938.09	8,873.72	35.75	32.96	179.468	645.98	-1,367.86	851.21	814.41	36.80	23.133	
10,900.00	9,724.56	10,038.09	8,873.20	35.75	33.00	179.608	745.97	-1,368.40	851.37	814.26	37.11	22.941	
11,000.00	9,724.20	10,138.09	8,872.67	35.75	33.09	179.748	845.97	-1,368.95	851.54	814.09	37.45	22.741	
11,100.00	9,723.84	10,238.09	8,872.15	35.95	33.25	179.887	945.97	-1,369.50	851.70	813.91	37.80	22.533	
11,200.00	9,723.48	10,338.09	8,871.62	36.22	33.49	-179.973	1,045.96	-1,370.05	851.87	813.70	38.17	22.317	
11,300.00	9,723.13	10,438.09	8,871.10	36.50	33.76	-179.834	1,145.96	-1,370.60	852.04	813.48	38.56	22.096	
11,400.00	9,722.77	10,538.09	8,870.58	36.80	34.07	-179.695	1,245.96	-1,371.14	852.20	813.24	38.97	21.870	
11,500.00	9,722.41	10,638.09	8,870.05	37.12	34.40	-179.555	1,345.95	-1,371.69	852.37	812.98	39.39	21.639	
11,600.00	9,722.06	10,738.09	8,869.53	37.45	34.76	-179.416	1,445.95	-1,372.24	852.54	812.71	39.83	21.404	
11,700.00	9,721.70	10,838.09	8,869.01	37.80	35.13	-179.277	1,545.95	-1,372.79	852.70	812.42	40.29	21.166	
11,800.00	9,721.34	10,938.09	8,868.48	38.17	35.52	-179.138	1,645.95	-1,373.33	852.87	812.11	40.76	20.925	
11,900.00	9,720.98	11,038.09	8,867.96	38.55	35.93	-178.999	1,745.94	-1,373.88	853.04	811.79	41.24	20.683	
12,000.00	9,720.63	11,138.09	8,867.44	38.95	36.36	-178.860	1,845.94	-1,374.43	853.20	811.46	41.74	20.439	
12,100.00	9,720.27	11,238.09	8,866.91	39.37	36.80	-178.721	1,945.94	-1,374.98	853.37	811.11	42.26	20.195	
12,200.00	9,719.91	11,338.09	8,866.39	39.79	37.25	-178.582	2,045.93	-1,375.53	853.54	810.75	42.78	19.950	
12,300.00	9,719.55	11,438.09	8,865.86	40.24	37.72	-178.443	2,145.93	-1,376.07	853.70	810.38	43.32	19.706	
12,400.00	9,719.20	11,538.09	8,865.34	40.69	38.21	-178.305	2,245.93	-1,376.62	853.87	809.99	43.87	19.462	
12,500.00	9,718.84	11,638.09	8,864.82	41.16	38.70	-178.166	2,345.92	-1,377.17	854.03	809.60	44.44	19.219	
12,600.00	9,718.48	11,738.09	8,864.29	41.64	39.21	-178.028	2,445.92	-1,377.72	854.20	809.19	45.01	18.977	
12,700.00	9,718.13	11,838.09	8,863.77	42.13	39.74	-177.889	2,545.92	-1,378.27	854.37	808.77	45.60	18.737	
12,800.00	9,717.77	11,938.09	8,863.25	42.64	40.27	-177.751	2,645.92	-1,378.81	854.53	808.34	46.19	18.499	
12,900.00	9,717.41	12,038.09	8,862.72	43.15	40.82	-177.612	2,745.91	-1,379.36	854.70	807.90	46.80	18.263	
13,000.00	9,717.05	12,138.09	8,862.20	43.68	41.37	-177.474	2,845.91	-1,379.91	854.87	807.45	47.41	18.030	
13,100.00	9,716.70	12,238.09	8,861.67	44.22	41.94	-177.336	2,945.91	-1,380.46	855.03	806.99	48.04	17.799	
13,200.00	9,716.34	12,338.09	8,861.15	44.77	42.52	-177.198	3,045.90	-1,381.01	855.20	806.53	48.67	17.570	
13,300.00	9,715.98	12,438.09	8,860.63	45.32	43.11	-177.060	3,145.90	-1,381.55	855.37	806.05	49.32	17.345	
13,400.00	9,715.62	12,538.09	8,860.10	45.89	43.70	-176.922	3,245.90	-1,382.10	855.53	805.57	49.97	17.122	
13,500.00	9,715.27	12,638.09	8,859.58	46.47	44.31	-176.785	3,345.89	-1,382.65	855.70	805.08	50.62	16.903	
13,600.00	9,714.91	12,738.09	8,859.06	47.05	44.92	-176.647	3,445.89	-1,383.20	855.87	804.58	51.29	16.687	
13,700.00	9,714.55	12,838.09	8,858.53	47.65	45.54	-176.510	3,545.89	-1,383.75	856.03	804.07	51.96	16.474	
13,800.00	9,714.20	12,938.09	8,858.01	48.25	46.17	-176.372	3,645.89	-1,384.29	856.20	803.55	52.64	16.264	
13,900.00	9,713.84	13,038.09	8,857.49	48.86	46.81	-176.235	3,745.88	-1,384.84	856.37	803.03	53.33	16.057	
14,000.00	9,713.48	13,138.09	8,856.96	49.48	47.46	-176.098	3,845.88	-1,385.39	856.53	802.51	54.03	15.854	
14,100.00	9,713.12	13,238.09	8,856.44	50.10	48.11	-175.960	3,945.88	-1,385.94	856.70	801.97	54.73	15.654	
14,200.00	9,712.77	13,338.09	8,855.91	50.73	48.77	-175.823	4,045.87	-1,386.49	856.86	801.43	55.43	15.458	
14,300.00	9,712.41	13,438.09	8,855.39	51.37	49.43	-175.686	4,145.87	-1,387.03	857.03	800.89	56.14	15.265	
14,400.00	9,712.05	13,538.09	8,854.87	52.02	50.10	-175.550	4,245.87	-1,387.58	857.20	800.34	56.86	15.075	
14,500.00	9,711.70	13,638.09	8,854.34	52.67	50.78	-175.413	4,345.86	-1,388.13	857.36	799.78	57.58	14.889	
14,600.00	9,711.34	13,738.09	8,853.82	53.33	51.46	-175.276	4,445.86	-1,388.68	857.53	799.22	58.31	14.706	
14,700.00	9,710.98	13,838.09	8,853.30	53.99	52.15	-175.140	4,545.86	-1,389.22	857.70	798.65	59.05	14.526	
14,800.00	9,710.62	13,938.09	8,852.77	54.66	52.84	-175.003	4,645.86	-1,389.77	857.86	798.08	59.78	14.349	
14,900.00	9,710.27	14,038.09	8,852.25	55.34	53.54	-174.867	4,745.85	-1,390.32	858.03	797.50	60.53	14.176	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 111H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,000.00	9,709.91	14,138.09	8,851.72	56.02	54.24	-174.731	4,845.85	-1,390.87	858.20	796.92	61.27	14.006	
15,100.00	9,709.55	14,238.09	8,851.20	56.70	54.95	-174.595	4,945.85	-1,391.42	858.36	796.34	62.03	13.839	
15,200.00	9,709.19	14,338.09	8,850.68	57.39	55.66	-174.459	5,045.84	-1,391.96	858.53	795.75	62.78	13.675	
15,300.00	9,708.84	14,438.09	8,850.15	58.09	56.38	-174.323	5,145.84	-1,392.51	858.70	795.15	63.54	13.514	
15,400.00	9,708.48	14,538.09	8,849.63	58.79	57.10	-174.188	5,245.84	-1,393.06	858.86	794.56	64.30	13.356	
15,500.00	9,708.12	14,638.09	8,849.11	59.49	57.83	-174.052	5,345.83	-1,393.61	859.03	793.96	65.07	13.201	
15,600.00	9,707.77	14,738.09	8,848.58	60.20	58.55	-173.917	5,445.83	-1,394.16	859.19	793.35	65.84	13.049	
15,700.00	9,707.41	14,838.09	8,848.06	60.91	59.29	-173.781	5,545.83	-1,394.70	859.36	792.74	66.62	12.900	
15,800.00	9,707.05	14,938.09	8,847.54	61.63	60.02	-173.646	5,645.83	-1,395.25	859.53	792.13	67.39	12.754	
15,900.00	9,706.69	15,038.09	8,847.01	62.35	60.76	-173.511	5,745.82	-1,395.80	859.69	791.52	68.18	12.610	
16,000.00	9,706.34	15,138.09	8,846.49	63.07	61.51	-173.376	5,845.82	-1,396.35	859.86	790.90	68.96	12.469	
16,100.00	9,705.98	15,238.09	8,845.96	63.80	62.25	-173.241	5,945.82	-1,396.90	860.03	790.28	69.75	12.331	
16,200.00	9,705.62	15,338.09	8,845.44	64.53	63.00	-173.107	6,045.81	-1,397.44	860.19	789.66	70.54	12.195	
16,300.00	9,705.27	15,438.09	8,844.92	65.27	63.75	-172.972	6,145.81	-1,397.99	860.36	789.03	71.33	12.062	
16,400.00	9,704.91	15,538.08	8,844.39	66.00	64.51	-172.838	6,245.81	-1,398.54	860.53	788.40	72.12	11.931	
16,500.00	9,704.55	15,638.08	8,843.87	66.74	65.27	-172.703	6,345.80	-1,399.09	860.69	787.77	72.92	11.803	
16,600.00	9,704.19	15,738.08	8,843.35	67.49	66.03	-172.569	6,445.80	-1,399.64	860.86	787.14	73.72	11.677	
16,700.00	9,703.84	15,838.08	8,842.82	68.23	66.79	-172.435	6,545.80	-1,400.18	861.03	786.50	74.53	11.553	
16,800.00	9,703.48	15,938.08	8,842.30	68.98	67.56	-172.301	6,645.80	-1,400.73	861.19	785.86	75.33	11.432	
16,900.00	9,703.12	16,038.08	8,841.78	69.73	68.32	-172.168	6,745.79	-1,401.28	861.36	785.22	76.14	11.313	
17,000.00	9,702.76	16,138.08	8,841.25	70.49	69.09	-172.034	6,845.79	-1,401.83	861.52	784.57	76.95	11.196	
17,100.00	9,702.41	16,238.08	8,840.73	71.25	69.87	-171.901	6,945.79	-1,402.37	861.69	783.93	77.76	11.081	
17,200.00	9,702.05	16,338.08	8,840.20	72.01	70.64	-171.767	7,045.78	-1,402.92	861.86	783.28	78.58	10.968	
17,300.00	9,701.69	16,438.08	8,839.68	72.77	71.42	-171.634	7,145.78	-1,403.47	862.02	782.63	79.39	10.858	
17,400.00	9,701.34	16,538.08	8,839.16	73.53	72.20	-171.501	7,245.78	-1,404.02	862.19	781.98	80.21	10.749	
17,500.00	9,700.98	16,638.08	8,838.63	74.30	72.98	-171.368	7,345.77	-1,404.57	862.36	781.32	81.03	10.642	
17,600.00	9,700.62	16,738.08	8,838.11	75.07	73.76	-171.235	7,445.77	-1,405.11	862.52	780.67	81.85	10.537	
17,700.00	9,700.26	16,838.08	8,837.59	75.84	74.55	-171.103	7,545.77	-1,405.66	862.69	780.01	82.68	10.434	
17,800.00	9,699.91	16,938.08	8,837.06	76.61	75.34	-170.971	7,645.76	-1,406.21	862.86	779.35	83.50	10.333	
17,900.00	9,699.55	17,038.08	8,836.54	77.39	76.12	-170.838	7,745.76	-1,406.76	863.02	778.69	84.33	10.234	
18,000.00	9,699.19	17,138.08	8,836.01	78.16	76.91	-170.706	7,845.76	-1,407.31	863.19	778.03	85.16	10.136	
18,100.00	9,698.83	17,238.08	8,835.49	78.94	77.71	-170.574	7,945.76	-1,407.85	863.36	777.36	85.99	10.040	
18,200.00	9,698.48	17,338.08	8,834.97	79.72	78.50	-170.442	8,045.75	-1,408.40	863.52	776.70	86.82	9.946	
18,300.00	9,698.12	17,438.08	8,834.44	80.51	79.29	-170.311	8,145.75	-1,408.95	863.69	776.03	87.66	9.853	
18,400.00	9,697.76	17,538.08	8,833.92	81.29	80.09	-170.179	8,245.75	-1,409.50	863.86	775.36	88.49	9.762	
18,500.00	9,697.41	17,638.08	8,833.40	82.08	80.89	-170.048	8,345.74	-1,410.05	864.02	774.69	89.33	9.672	
18,600.00	9,697.05	17,738.08	8,832.87	82.86	81.69	-169.917	8,445.74	-1,410.59	864.19	774.02	90.17	9.584	
18,700.00	9,696.69	17,838.08	8,832.35	83.65	82.49	-169.786	8,545.74	-1,411.14	864.35	773.35	91.01	9.497	
18,800.00	9,696.33	17,938.08	8,831.83	84.44	83.29	-169.655	8,645.73	-1,411.69	864.52	772.67	91.85	9.412	
18,900.00	9,695.98	18,038.08	8,831.30	85.24	84.09	-169.524	8,745.73	-1,412.24	864.69	772.00	92.69	9.329	
19,000.00	9,695.62	18,138.08	8,830.78	86.03	84.90	-169.394	8,845.73	-1,412.79	864.85	771.32	93.54	9.246	
19,100.00	9,695.26	18,238.08	8,830.25	86.82	85.71	-169.263	8,945.73	-1,413.33	865.02	770.64	94.38	9.165	
19,200.00	9,694.91	18,338.08	8,829.73	87.62	86.51	-169.133	9,045.72	-1,413.88	865.19	769.96	95.23	9.086	
19,300.00	9,694.55	18,438.08	8,829.21	88.42	87.32	-169.003	9,145.72	-1,414.43	865.35	769.28	96.07	9.007	
19,400.00	9,694.19	18,538.08	8,828.68	89.22	88.13	-168.873	9,245.72	-1,414.98	865.52	768.60	96.92	8.930	
19,500.00	9,693.83	18,638.08	8,828.16	90.02	88.94	-168.744	9,345.71	-1,415.52	865.69	767.92	97.77	8.854	
19,600.00	9,693.48	18,738.08	8,827.64	90.82	89.75	-168.614	9,445.71	-1,416.07	865.85	767.23	98.62	8.780	
19,700.00	9,693.12	18,838.08	8,827.11	91.62	90.57	-168.485	9,545.71	-1,416.62	866.02	766.55	99.47	8.706	
19,800.00	9,692.76	18,938.08	8,826.59	92.43	91.38	-168.356	9,645.70	-1,417.17	866.19	765.86	100.32	8.634	
19,900.00	9,692.40	19,038.08	8,826.06	93.23	92.19	-168.227	9,745.70	-1,417.72	866.35	765.18	101.18	8.563	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 111H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,000.00	9,692.05	19,138.08	8,825.54	94.04	93.01	-168.098	9,845.70	-1,418.26	866.52	764.49	102.03	8.493	
20,100.00	9,691.69	19,238.08	8,825.02	94.84	93.83	-167.969	9,945.70	-1,418.81	866.68	763.80	102.89	8.424	
20,150.35	9,691.51	19,288.43	8,824.75	95.25	94.24	-167.904	9,996.04	-1,419.09	866.77	763.45	103.32	8.389	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 115H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-72.640	25.04	-80.11	83.94				
100.00	100.00	100.00	100.00	0.26	0.26	-72.640	25.04	-80.11	83.94	83.41	0.53	159.289	
200.00	200.00	200.00	200.00	0.62	0.62	-72.640	25.04	-80.11	83.94	82.69	1.24	67.480	
300.00	300.00	300.00	300.00	0.98	0.98	-72.640	25.04	-80.11	83.94	81.98	1.96	42.807	
400.00	400.00	400.00	400.00	1.34	1.34	-72.640	25.04	-80.11	83.94	81.26	2.68	31.346	
500.00	500.00	500.00	500.00	1.70	1.70	-72.640	25.04	-80.11	83.94	80.54	3.39	24.726	
600.00	600.00	600.00	600.00	2.06	2.06	-72.640	25.04	-80.11	83.94	79.83	4.11	20.415	
700.00	700.00	700.00	700.00	2.41	2.41	-72.640	25.04	-80.11	83.94	79.11	4.83	17.383	
800.00	800.00	800.00	800.00	2.77	2.77	-72.640	25.04	-80.11	83.94	78.39	5.55	15.136	
900.00	900.00	900.00	900.00	3.13	3.13	-72.640	25.04	-80.11	83.94	77.68	6.26	13.403	
1,000.00	1,000.00	1,000.00	1,000.00	3.49	3.49	-72.640	25.04	-80.11	83.94	76.96	6.98	12.026	
1,100.00	1,100.00	1,100.00	1,100.00	3.85	3.85	-72.640	25.04	-80.11	83.94	76.24	7.70	10.906	
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	-72.640	25.04	-80.11	83.94	75.52	8.41	9.977	
1,300.00	1,300.00	1,300.00	1,300.00	4.57	4.57	-72.640	25.04	-80.11	83.94	74.81	9.13	9.193	
1,400.00	1,400.00	1,400.00	1,400.00	4.92	4.92	-72.640	25.04	-80.11	83.94	74.09	9.85	8.524	
1,500.00	1,500.00	1,500.00	1,500.00	5.28	5.28	-72.640	25.04	-80.11	83.94	73.37	10.56	7.946	
1,600.00	1,600.00	1,600.53	1,600.52	5.64	5.62	-73.202	24.16	-80.05	83.62	72.36	11.26	7.423	
1,700.00	1,700.00	1,701.00	1,700.96	6.00	5.95	-74.913	21.53	-79.86	82.71	70.77	11.95	6.922	
1,800.00	1,800.00	1,801.34	1,801.20	6.36	6.28	-77.837	17.14	-79.54	81.37	68.74	12.64	6.440	
1,900.00	1,900.00	1,901.50	1,901.17	6.72	6.61	-82.068	11.02	-79.09	79.87	66.54	13.33	5.993	
2,000.00	2,000.00	2,001.42	2,000.78	7.07	6.95	-87.684	3.18	-78.52	78.59	64.57	14.02	5.606	
2,093.27	2,093.27	2,094.34	2,093.27	7.41	7.26	-94.166	-5.67	-77.88	78.08	63.42	14.67	5.324	CC
2,100.00	2,100.00	2,101.03	2,099.93	7.43	7.28	-94.677	-6.37	-77.83	78.09	63.37	14.71	5.307	ES
2,200.00	2,200.00	2,200.48	2,198.83	7.79	7.62	-102.253	-16.74	-77.07	78.88	63.47	15.41	5.119	
2,300.00	2,300.00	2,299.93	2,297.74	8.15	7.96	-109.556	-27.11	-76.32	81.02	64.91	16.11	5.031	
2,400.00	2,400.00	2,399.38	2,396.65	8.51	8.30	-116.383	-37.48	-75.56	84.41	67.61	16.80	5.024	SF
2,500.00	2,500.00	2,498.84	2,495.55	8.87	8.65	-122.607	-47.85	-74.81	88.91	71.42	17.50	5.082	
2,600.00	2,600.00	2,598.29	2,594.46	9.23	8.99	-128.177	-58.22	-74.05	94.36	76.17	18.19	5.186	
2,700.00	2,700.00	2,697.74	2,693.37	9.58	9.34	-133.103	-68.59	-73.29	100.60	81.71	18.89	5.325	
2,800.00	2,800.00	2,797.19	2,792.27	9.94	9.69	-137.429	-78.97	-72.54	107.50	87.91	19.59	5.488	
2,900.00	2,900.00	2,896.64	2,891.18	10.30	10.04	-141.218	-89.34	-71.78	114.94	94.65	20.29	5.665	
3,000.00	3,000.00	2,996.10	2,990.09	10.66	10.39	-144.535	-99.71	-71.03	122.82	101.83	20.99	5.852	
3,100.00	3,099.99	3,095.58	3,089.02	11.01	10.75	-147.788	-110.08	-70.27	130.01	108.33	21.68	5.998	
3,200.00	3,199.91	3,195.07	3,187.97	11.34	11.10	-151.398	-120.46	-69.52	135.56	113.20	22.35	6.064	
3,300.00	3,299.69	3,294.51	3,286.86	11.68	11.46	-155.452	-130.83	-68.76	139.70	116.67	23.03	6.066	
3,400.00	3,399.27	3,393.82	3,385.63	12.02	11.81	-160.035	-141.18	-68.01	142.76	119.04	23.71	6.021	
3,500.00	3,498.57	3,492.95	3,484.21	12.36	12.17	-165.226	-151.52	-67.25	145.10	120.71	24.39	5.949	
3,600.00	3,597.54	3,591.81	3,582.54	12.70	12.52	-171.081	-161.83	-66.50	147.24	122.16	25.07	5.872	
3,700.00	3,696.09	3,690.35	3,680.53	13.04	12.88	-177.619	-172.11	-65.76	149.75	123.99	25.76	5.814	
3,800.00	3,794.16	3,788.49	3,778.14	13.39	13.23	175.212	-182.34	-65.01	153.31	126.86	26.45	5.797	
3,900.00	3,891.70	3,886.17	3,875.28	13.74	13.58	167.549	-192.53	-64.27	158.65	131.50	27.14	5.845	
4,000.00	3,988.62	3,983.32	3,971.90	14.09	13.93	159.618	-202.66	-63.53	166.46	138.62	27.84	5.979	
4,100.00	4,085.12	4,080.10	4,068.15	14.44	14.28	152.005	-212.75	-62.79	177.26	148.71	28.55	6.209	
4,200.00	4,181.62	4,176.88	4,164.40	14.80	14.63	145.366	-222.84	-62.06	190.78	161.53	29.25	6.522	
4,300.00	4,278.12	4,273.66	4,260.65	15.16	14.98	139.677	-232.94	-61.32	206.50	176.54	29.96	6.892	
4,400.00	4,374.62	4,370.44	4,356.90	15.52	15.33	134.837	-243.03	-60.59	223.95	193.28	30.67	7.303	
4,500.00	4,471.12	4,467.23	4,453.15	15.89	15.68	130.725	-253.12	-59.85	242.76	211.39	31.37	7.738	
4,600.00	4,567.62	4,564.01	4,549.40	16.26	16.04	127.222	-263.22	-59.12	262.64	230.56	32.07	8.188	
4,700.00	4,664.11	4,660.79	4,645.65	16.63	16.39	124.223	-273.31	-58.38	283.35	250.58	32.78	8.645	
4,800.00	4,760.61	4,757.57	4,741.90	17.00	16.74	121.640	-283.40	-57.65	304.74	271.26	33.48	9.102	
4,900.00	4,857.11	4,854.35	4,838.15	17.37	17.09	119.401	-293.49	-56.91	326.67	292.49	34.18	9.557	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 115H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.61	4,951.13	4,934.40	17.75	17.44	117.447	-303.59	-56.18	349.04	314.15	34.89	10.005	
5,100.00	5,050.11	5,047.91	5,030.65	18.12	17.80	115.731	-313.68	-55.44	371.77	336.18	35.59	10.446	
5,200.00	5,146.61	5,144.69	5,126.90	18.50	18.15	114.214	-323.77	-54.71	394.79	358.49	36.29	10.878	
5,300.00	5,243.11	5,241.47	5,223.16	18.88	18.50	112.865	-333.86	-53.97	418.06	381.06	37.00	11.300	
5,400.00	5,339.61	5,338.25	5,319.41	19.26	18.86	111.659	-343.96	-53.24	441.53	403.83	37.70	11.712	
5,500.00	5,436.11	5,435.03	5,415.66	19.65	19.21	110.576	-354.05	-52.50	465.19	426.78	38.41	12.113	
5,600.00	5,532.60	5,531.81	5,511.91	20.03	19.56	109.598	-364.14	-51.77	488.99	449.88	39.11	12.503	
5,700.00	5,629.10	5,628.59	5,608.16	20.41	19.92	108.711	-374.23	-51.03	512.93	473.11	39.82	12.882	
5,800.00	5,725.60	5,725.37	5,704.41	20.80	20.27	107.903	-384.33	-50.30	536.98	496.46	40.52	13.251	
5,900.00	5,822.10	5,822.16	5,800.66	21.19	20.62	107.165	-394.42	-49.56	561.13	519.90	41.23	13.609	
6,000.00	5,918.60	5,918.94	5,896.91	21.58	20.98	106.488	-404.51	-48.83	585.36	543.42	41.94	13.957	
6,100.00	6,015.10	6,015.72	5,993.16	21.96	21.33	105.865	-414.61	-48.09	609.67	567.02	42.65	14.295	
6,200.00	6,111.60	6,112.50	6,089.41	22.35	21.69	105.290	-424.70	-47.36	634.05	590.69	43.36	14.624	
6,300.00	6,208.10	6,209.28	6,185.66	22.74	22.04	104.757	-434.79	-46.62	658.48	614.42	44.07	14.943	
6,400.00	6,304.59	6,306.06	6,281.91	23.14	22.39	104.263	-444.88	-45.89	682.97	638.19	44.78	15.253	
6,500.00	6,401.09	6,402.84	6,378.16	23.53	22.75	103.803	-454.98	-45.15	707.51	662.02	45.49	15.554	
6,600.00	6,497.59	6,502.59	6,477.41	23.92	23.11	103.359	-464.87	-44.43	731.94	685.72	46.22	15.836	
6,700.00	6,594.09	6,603.29	6,577.77	24.32	23.48	102.826	-473.15	-43.83	755.93	708.97	46.95	16.099	
6,800.00	6,690.59	6,703.97	6,678.24	24.71	23.84	102.202	-479.67	-43.35	779.50	731.82	47.68	16.348	
6,900.00	6,787.09	6,804.56	6,778.72	25.10	24.21	101.494	-484.42	-43.01	802.71	754.30	48.41	16.582	
7,000.00	6,883.59	6,905.01	6,879.12	25.50	24.56	100.707	-487.41	-42.79	825.60	776.47	49.13	16.806	
7,100.00	6,980.09	7,005.25	6,979.35	25.90	24.92	99.847	-488.65	-42.70	848.23	798.39	49.84	17.020	
7,200.00	7,076.59	7,102.49	7,076.59	26.29	25.24	98.955	-488.69	-42.70	870.77	820.27	50.51	17.241	
7,300.00	7,173.08	7,198.99	7,173.08	26.69	25.56	98.106	-488.69	-42.70	893.51	842.34	51.17	17.461	
7,400.00	7,269.58	7,295.49	7,269.58	27.09	25.87	97.299	-488.69	-42.70	916.44	864.61	51.84	17.680	
7,500.00	7,366.08	7,391.99	7,366.08	27.49	26.19	96.532	-488.69	-42.70	939.54	887.04	52.50	17.896	
7,600.00	7,462.58	7,488.49	7,462.58	27.88	26.51	95.801	-488.69	-42.70	962.80	909.63	53.17	18.109	
7,700.00	7,559.08	7,584.98	7,559.08	28.28	26.83	95.106	-488.69	-42.70	986.21	932.37	53.84	18.319	
7,800.00	7,655.58	7,681.48	7,655.58	28.68	27.15	94.442	-488.69	-42.70	1,009.76	955.25	54.50	18.527	
7,900.00	7,752.08	7,777.98	7,752.08	29.08	27.47	93.809	-488.69	-42.70	1,033.43	978.26	55.17	18.731	
8,000.00	7,848.58	7,874.48	7,848.58	29.48	27.79	93.205	-488.69	-42.70	1,057.23	1,001.39	55.84	18.932	
8,100.00	7,945.08	7,970.98	7,945.08	29.88	28.12	92.627	-488.69	-42.70	1,081.14	1,024.63	56.51	19.131	
8,200.00	8,041.64	8,067.55	8,041.64	30.28	28.44	92.079	-488.69	-42.70	1,104.92	1,047.74	57.18	19.322	
8,300.00	8,138.76	8,164.67	8,138.76	30.68	28.76	91.597	-488.69	-42.70	1,126.81	1,068.95	57.86	19.475	
8,400.00	8,236.47	8,262.37	8,236.47	31.07	29.09	91.183	-488.69	-42.70	1,146.43	1,087.89	58.54	19.584	
8,500.00	8,334.70	8,361.15	8,335.24	31.45	29.42	90.822	-488.53	-42.70	1,163.72	1,104.50	59.22	19.650	
8,600.00	8,433.39	8,461.28	8,434.64	31.83	29.75	89.988	-477.47	-42.76	1,178.56	1,118.67	59.89	19.678	
8,700.00	8,532.47	8,553.73	8,523.42	32.19	30.04	88.529	-452.05	-42.90	1,191.46	1,130.98	60.47	19.703	
8,800.00	8,631.86	8,635.57	8,597.71	32.56	30.28	86.725	-417.89	-43.08	1,203.48	1,142.54	60.94	19.750	
8,900.00	8,731.51	8,706.08	8,657.27	32.91	30.47	84.826	-380.23	-43.29	1,215.80	1,154.54	61.26	19.846	
9,000.00	8,831.35	8,765.98	8,703.91	33.26	30.62	82.999	-342.69	-43.50	1,229.45	1,168.04	61.41	20.020	
9,100.00	8,931.30	8,816.65	8,740.13	33.61	30.73	81.325	-307.28	-43.69	1,245.25	1,183.88	61.37	20.291	
9,200.00	9,031.29	8,859.59	8,768.27	33.94	30.83	79.832	-274.86	-43.87	1,263.90	1,202.78	61.12	20.680	
9,300.00	9,131.29	8,900.00	8,792.47	34.27	30.91	78.361	-242.51	-44.04	1,287.55	1,226.86	60.70	21.213	
9,400.00	9,231.06	8,928.91	8,808.35	34.59	30.97	77.511	-218.35	-44.18	1,316.42	1,256.37	60.05	21.922	
9,500.00	9,328.48	8,963.98	8,825.95	34.90	31.03	77.159	-188.03	-44.34	1,348.50	1,289.13	59.37	22.714	
9,600.00	9,420.59	9,000.00	8,842.06	35.18	31.10	77.478	-155.82	-44.52	1,381.98	1,323.31	58.67	23.557	
9,700.00	9,504.61	9,050.00	8,861.01	35.42	31.18	77.870	-109.57	-44.77	1,415.32	1,357.23	58.08	24.367	
9,800.00	9,577.97	9,077.42	8,869.66	35.60	31.22	79.783	-83.55	-44.91	1,446.79	1,389.37	57.42	25.197	
9,900.00	9,638.46	9,116.89	8,879.91	35.72	31.28	81.679	-45.44	-45.12	1,475.49	1,418.53	56.96	25.903	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 115H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,684.22	9,150.00	8,886.47	35.79	31.32	84.234	-13.00	-45.30	1,500.37	1,443.72	56.65	26.485	
10,100.00	9,713.87	9,200.00	8,892.80	35.81	31.38	86.291	36.59	-45.57	1,520.54	1,463.96	56.58	26.874	
10,200.00	9,726.51	9,249.73	8,894.78	35.81	31.43	88.476	86.26	-45.84	1,535.65	1,478.96	56.69	27.089	
10,300.00	9,726.69	9,318.80	8,894.54	35.80	31.50	89.814	155.33	-46.22	1,545.93	1,488.98	56.94	27.148	
10,400.00	9,726.34	9,418.40	8,894.20	35.79	31.63	89.813	254.93	-46.77	1,553.39	1,496.19	57.20	27.155	
10,500.00	9,725.98	9,518.25	8,893.85	35.78	31.78	89.813	354.78	-47.31	1,557.93	1,500.46	57.47	27.108	
10,600.00	9,725.63	9,618.23	8,893.50	35.77	31.95	89.813	454.75	-47.86	1,559.52	1,501.78	57.75	27.007	
10,700.00	9,725.27	9,718.23	8,893.15	35.76	32.15	89.813	554.75	-48.41	1,559.51	1,501.47	58.04	26.870	
10,800.00	9,724.91	9,818.23	8,892.80	35.75	32.37	89.813	654.75	-48.96	1,559.50	1,501.12	58.37	26.715	
10,900.00	9,724.56	9,918.23	8,892.45	35.75	32.61	89.813	754.75	-49.50	1,559.49	1,500.74	58.75	26.545	
11,000.00	9,724.20	10,018.23	8,892.10	35.75	32.87	89.813	854.74	-50.05	1,559.47	1,500.31	59.16	26.361	
11,100.00	9,723.84	10,118.23	8,891.75	35.95	33.15	89.813	954.74	-50.60	1,559.46	1,499.85	59.61	26.162	
11,200.00	9,723.48	10,218.23	8,891.40	36.22	33.45	89.813	1,054.74	-51.15	1,559.45	1,499.35	60.09	25.950	
11,300.00	9,723.13	10,318.23	8,891.06	36.50	33.77	89.813	1,154.74	-51.69	1,559.43	1,498.82	60.61	25.727	
11,400.00	9,722.77	10,418.23	8,890.71	36.80	34.11	89.813	1,254.73	-52.24	1,559.42	1,498.25	61.17	25.494	
11,500.00	9,722.41	10,518.23	8,890.36	37.12	34.47	89.813	1,354.73	-52.79	1,559.41	1,497.65	61.76	25.250	
11,600.00	9,722.06	10,618.23	8,890.01	37.45	34.84	89.813	1,454.73	-53.33	1,559.39	1,497.01	62.38	24.998	
11,700.00	9,721.70	10,718.23	8,889.66	37.80	35.24	89.813	1,554.73	-53.88	1,559.38	1,496.35	63.03	24.739	
11,800.00	9,721.34	10,818.23	8,889.31	38.17	35.65	89.813	1,654.73	-54.43	1,559.37	1,495.65	63.72	24.473	
11,900.00	9,720.98	10,918.23	8,888.96	38.55	36.07	89.813	1,754.72	-54.98	1,559.36	1,494.92	64.43	24.202	
12,000.00	9,720.63	11,018.23	8,888.61	38.95	36.52	89.813	1,854.72	-55.52	1,559.34	1,494.17	65.18	23.925	
12,100.00	9,720.27	11,118.23	8,888.26	39.37	36.97	89.813	1,954.72	-56.07	1,559.33	1,493.38	65.95	23.646	
12,200.00	9,719.91	11,218.23	8,887.91	39.79	37.45	89.813	2,054.72	-56.62	1,559.32	1,492.57	66.74	23.363	
12,300.00	9,719.55	11,318.23	8,887.56	40.24	37.93	89.813	2,154.72	-57.17	1,559.30	1,491.74	67.57	23.078	
12,400.00	9,719.20	11,418.23	8,887.22	40.69	38.43	89.813	2,254.71	-57.71	1,559.29	1,490.87	68.42	22.791	
12,500.00	9,718.84	11,518.23	8,886.87	41.16	38.94	89.813	2,354.71	-58.26	1,559.28	1,489.99	69.29	22.504	
12,600.00	9,718.48	11,618.23	8,886.52	41.64	39.47	89.813	2,454.71	-58.81	1,559.26	1,489.08	70.19	22.216	
12,700.00	9,718.13	11,718.23	8,886.17	42.13	40.00	89.813	2,554.71	-59.35	1,559.25	1,488.15	71.10	21.929	
12,800.00	9,717.77	11,818.23	8,885.82	42.64	40.55	89.813	2,654.71	-59.90	1,559.24	1,487.19	72.04	21.643	
12,900.00	9,717.41	11,918.23	8,885.47	43.15	41.11	89.813	2,754.70	-60.45	1,559.22	1,486.22	73.01	21.358	
13,000.00	9,717.05	12,018.23	8,885.12	43.68	41.68	89.813	2,854.70	-61.00	1,559.21	1,485.23	73.99	21.074	
13,100.00	9,716.70	12,118.23	8,884.77	44.22	42.26	89.813	2,954.70	-61.54	1,559.20	1,484.21	74.99	20.793	
13,200.00	9,716.34	12,218.23	8,884.42	44.77	42.85	89.813	3,054.70	-62.09	1,559.19	1,483.18	76.00	20.515	
13,300.00	9,715.98	12,318.23	8,884.07	45.32	43.45	89.813	3,154.69	-62.64	1,559.17	1,482.13	77.04	20.239	
13,400.00	9,715.62	12,418.23	8,883.73	45.89	44.06	89.813	3,254.69	-63.19	1,559.16	1,481.07	78.09	19.966	
13,500.00	9,715.27	12,518.23	8,883.38	46.47	44.67	89.813	3,354.69	-63.73	1,559.15	1,479.99	79.16	19.696	
13,600.00	9,714.91	12,618.23	8,883.03	47.05	45.30	89.813	3,454.69	-64.28	1,559.13	1,478.89	80.24	19.430	
13,700.00	9,714.55	12,718.23	8,882.68	47.65	45.93	89.813	3,554.69	-64.83	1,559.12	1,477.78	81.34	19.167	
13,800.00	9,714.20	12,818.23	8,882.33	48.25	46.57	89.813	3,654.68	-65.38	1,559.11	1,476.65	82.46	18.908	
13,900.00	9,713.84	12,918.23	8,881.98	48.86	47.22	89.813	3,754.68	-65.92	1,559.09	1,475.51	83.59	18.653	
14,000.00	9,713.48	13,018.23	8,881.63	49.48	47.87	89.813	3,854.68	-66.47	1,559.08	1,474.35	84.73	18.401	
14,100.00	9,713.12	13,118.23	8,881.28	50.10	48.53	89.813	3,954.68	-67.02	1,559.07	1,473.19	85.88	18.154	
14,200.00	9,712.77	13,218.23	8,880.93	50.73	49.20	89.813	4,054.68	-67.56	1,559.05	1,472.01	87.05	17.911	
14,300.00	9,712.41	13,318.23	8,880.58	51.37	49.87	89.813	4,154.67	-68.11	1,559.04	1,470.82	88.22	17.672	
14,400.00	9,712.05	13,418.23	8,880.23	52.02	50.55	89.813	4,254.67	-68.66	1,559.03	1,469.62	89.41	17.437	
14,500.00	9,711.70	13,518.23	8,879.89	52.67	51.24	89.813	4,354.67	-69.21	1,559.02	1,468.40	90.61	17.206	
14,600.00	9,711.34	13,618.23	8,879.54	53.33	51.93	89.813	4,454.67	-69.75	1,559.00	1,467.18	91.82	16.979	
14,700.00	9,710.98	13,718.23	8,879.19	53.99	52.62	89.813	4,554.67	-70.30	1,558.99	1,465.95	93.04	16.756	
14,800.00	9,710.62	13,818.23	8,878.84	54.66	53.33	89.813	4,654.66	-70.85	1,558.98	1,464.71	94.27	16.537	
14,900.00	9,710.27	13,918.23	8,878.49	55.34	54.03	89.813	4,754.66	-71.40	1,558.96	1,463.45	95.51	16.323	
15,000.00	9,709.91	14,018.23	8,878.14	56.02	54.74	89.813	4,854.66	-71.94	1,558.95	1,462.19	96.76	16.112	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 115H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,100.00	9,709.55	14,118.23	8,877.79	56.70	55.46	89.813	4,954.66	-72.49	1,558.94	1,460.92	98.01	15.905	
15,200.00	9,709.19	14,218.23	8,877.44	57.39	56.18	89.813	5,054.65	-73.04	1,558.92	1,459.65	99.28	15.703	
15,300.00	9,708.84	14,318.23	8,877.09	58.09	56.90	89.813	5,154.65	-73.59	1,558.91	1,458.36	100.55	15.504	
15,400.00	9,708.48	14,418.23	8,876.74	58.79	57.63	89.813	5,254.65	-74.13	1,558.90	1,457.07	101.83	15.309	
15,500.00	9,708.12	14,518.23	8,876.40	59.49	58.36	89.813	5,354.65	-74.68	1,558.89	1,455.77	103.12	15.118	
15,600.00	9,707.77	14,618.23	8,876.05	60.20	59.09	89.813	5,454.65	-75.23	1,558.87	1,454.46	104.41	14.930	
15,700.00	9,707.41	14,718.23	8,875.70	60.91	59.83	89.813	5,554.64	-75.77	1,558.86	1,453.15	105.71	14.746	
15,800.00	9,707.05	14,818.23	8,875.35	61.63	60.57	89.813	5,654.64	-76.32	1,558.85	1,451.83	107.02	14.566	
15,900.00	9,706.69	14,918.23	8,875.00	62.35	61.32	89.813	5,754.64	-76.87	1,558.83	1,450.50	108.33	14.389	
16,000.00	9,706.34	15,018.23	8,874.65	63.07	62.07	89.813	5,854.64	-77.42	1,558.82	1,449.17	109.65	14.216	
16,100.00	9,705.98	15,118.23	8,874.30	63.80	62.82	89.813	5,954.64	-77.96	1,558.81	1,447.83	110.98	14.046	
16,200.00	9,705.62	15,218.23	8,873.95	64.53	63.57	89.813	6,054.63	-78.51	1,558.79	1,446.48	112.31	13.879	
16,300.00	9,705.27	15,318.23	8,873.60	65.27	64.33	89.813	6,154.63	-79.06	1,558.78	1,445.13	113.65	13.716	
16,400.00	9,704.91	15,418.23	8,873.25	66.00	65.09	89.813	6,254.63	-79.61	1,558.77	1,443.78	114.99	13.556	
16,500.00	9,704.55	15,518.23	8,872.91	66.74	65.85	89.813	6,354.63	-80.15	1,558.75	1,442.42	116.34	13.398	
16,600.00	9,704.19	15,618.23	8,872.56	67.49	66.62	89.813	6,454.63	-80.70	1,558.74	1,441.05	117.69	13.244	
16,700.00	9,703.84	15,718.23	8,872.21	68.23	67.38	89.813	6,554.62	-81.25	1,558.73	1,439.68	119.05	13.093	
16,800.00	9,703.48	15,818.23	8,871.86	68.98	68.15	89.813	6,654.62	-81.80	1,558.72	1,438.31	120.41	12.945	
16,900.00	9,703.12	15,918.23	8,871.51	69.73	68.93	89.813	6,754.62	-82.34	1,558.70	1,436.93	121.78	12.800	
17,000.00	9,702.76	16,018.23	8,871.16	70.49	69.70	89.813	6,854.62	-82.89	1,558.69	1,435.54	123.15	12.657	
17,100.00	9,702.41	16,118.23	8,870.81	71.25	70.48	89.813	6,954.61	-83.44	1,558.68	1,434.16	124.52	12.517	
17,200.00	9,702.05	16,218.23	8,870.46	72.01	71.26	89.813	7,054.61	-83.98	1,558.66	1,432.76	125.90	12.380	
17,300.00	9,701.69	16,318.23	8,870.11	72.77	72.04	89.813	7,154.61	-84.53	1,558.65	1,431.37	127.28	12.246	
17,400.00	9,701.34	16,418.23	8,869.76	73.53	72.82	89.813	7,254.61	-85.08	1,558.64	1,429.97	128.67	12.114	
17,500.00	9,700.98	16,518.23	8,869.41	74.30	73.61	89.813	7,354.61	-85.63	1,558.62	1,428.57	130.06	11.984	
17,600.00	9,700.62	16,618.23	8,869.07	75.07	74.39	89.813	7,454.60	-86.17	1,558.61	1,427.16	131.45	11.857	
17,700.00	9,700.26	16,718.23	8,868.72	75.84	75.18	89.813	7,554.60	-86.72	1,558.60	1,425.75	132.85	11.732	
17,800.00	9,699.91	16,818.23	8,868.37	76.61	75.97	89.813	7,654.60	-87.27	1,558.58	1,424.34	134.25	11.610	
17,900.00	9,699.55	16,918.23	8,868.02	77.39	76.76	89.813	7,754.60	-87.82	1,558.57	1,422.92	135.65	11.490	
18,000.00	9,699.19	17,018.23	8,867.67	78.16	77.56	89.813	7,854.60	-88.36	1,558.56	1,421.50	137.06	11.372	
18,100.00	9,698.83	17,118.23	8,867.32	78.94	78.35	89.813	7,954.59	-88.91	1,558.55	1,420.08	138.47	11.256	
18,200.00	9,698.48	17,218.23	8,866.97	79.72	79.15	89.813	8,054.59	-89.46	1,558.53	1,418.65	139.88	11.142	
18,300.00	9,698.12	17,318.23	8,866.62	80.51	79.95	89.813	8,154.59	-90.01	1,558.52	1,417.23	141.29	11.030	
18,400.00	9,697.76	17,418.23	8,866.27	81.29	80.75	89.813	8,254.59	-90.55	1,558.51	1,415.80	142.71	10.921	
18,500.00	9,697.41	17,518.23	8,865.92	82.08	81.55	89.813	8,354.59	-91.10	1,558.49	1,414.36	144.13	10.813	
18,600.00	9,697.05	17,618.23	8,865.58	82.86	82.35	89.813	8,454.58	-91.65	1,558.48	1,412.93	145.56	10.707	
18,700.00	9,696.69	17,718.23	8,865.23	83.65	83.15	89.813	8,554.58	-92.19	1,558.47	1,411.49	146.98	10.603	
18,800.00	9,696.33	17,818.23	8,864.88	84.44	83.96	89.813	8,654.58	-92.74	1,558.45	1,410.05	148.41	10.501	
18,900.00	9,695.98	17,918.23	8,864.53	85.24	84.76	89.813	8,754.58	-93.29	1,558.44	1,408.60	149.84	10.401	
19,000.00	9,695.62	18,018.23	8,864.18	86.03	85.57	89.813	8,854.57	-93.84	1,558.43	1,407.16	151.27	10.302	
19,100.00	9,695.26	18,118.23	8,863.83	86.82	86.38	89.813	8,954.57	-94.38	1,558.42	1,405.71	152.71	10.205	
19,200.00	9,694.91	18,218.23	8,863.48	87.62	87.19	89.813	9,054.57	-94.93	1,558.40	1,404.26	154.14	10.110	
19,300.00	9,694.55	18,318.23	8,863.13	88.42	88.00	89.813	9,154.57	-95.48	1,558.39	1,402.81	155.58	10.016	
19,400.00	9,694.19	18,418.23	8,862.78	89.22	88.81	89.813	9,254.57	-96.03	1,558.38	1,401.35	157.02	9.924	
19,500.00	9,693.83	18,518.23	8,862.43	90.02	89.62	89.813	9,354.56	-96.57	1,558.36	1,399.90	158.47	9.834	
19,600.00	9,693.48	18,618.23	8,862.08	90.82	90.44	89.813	9,454.56	-97.12	1,558.35	1,398.44	159.91	9.745	
19,700.00	9,693.12	18,718.23	8,861.74	91.62	91.25	89.813	9,554.56	-97.67	1,558.34	1,396.98	161.36	9.658	
19,800.00	9,692.76	18,818.23	8,861.39	92.43	92.07	89.813	9,654.56	-98.22	1,558.32	1,395.51	162.81	9.571	
19,900.00	9,692.40	18,918.23	8,861.04	93.23	92.88	89.813	9,754.56	-98.76	1,558.31	1,394.05	164.26	9.487	
20,000.00	9,692.05	19,018.23	8,860.69	94.04	93.70	89.813	9,854.55	-99.31	1,558.30	1,392.59	165.71	9.404	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 115H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,100.00	9,691.69	19,118.23	8,860.34	94.84	94.52	89.813	9,954.55	-99.86	1,558.28	1,391.12	167.17	9.322	
20,150.35	9,691.51	19,168.58	8,860.16	95.25	94.93	89.813	10,004.90	-100.13	1,558.28	1,390.38	167.90	9.281	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.976	0.04	-105.11	105.11				
100.00	100.00	100.00	100.00	0.26	0.26	-89.976	0.04	-105.11	105.11	104.59	0.53	199.476	
200.00	200.00	200.00	200.00	0.62	0.62	-89.976	0.04	-105.11	105.11	103.87	1.24	84.504	
300.00	300.00	300.00	300.00	0.98	0.98	-89.976	0.04	-105.11	105.11	103.15	1.96	53.607	
400.00	400.00	400.00	400.00	1.34	1.34	-89.976	0.04	-105.11	105.11	102.44	2.68	39.254	
500.00	500.00	500.00	500.00	1.70	1.70	-89.976	0.04	-105.11	105.11	101.72	3.39	30.964	
600.00	600.00	600.00	600.00	2.06	2.06	-89.976	0.04	-105.11	105.11	101.00	4.11	25.565	
700.00	700.00	700.00	700.00	2.41	2.41	-89.976	0.04	-105.11	105.11	100.29	4.83	21.769	
800.00	800.00	800.00	800.00	2.77	2.77	-89.976	0.04	-105.11	105.11	99.57	5.55	18.955	
900.00	900.00	900.91	900.90	3.13	3.12	-90.398	-0.73	-104.67	104.68	98.43	6.25	16.752	
1,000.00	1,000.00	1,001.76	1,001.71	3.49	3.45	-91.684	-3.04	-103.35	103.41	96.47	6.94	14.901	
1,100.00	1,100.00	1,102.48	1,102.34	3.85	3.79	-93.894	-6.88	-101.15	101.41	93.78	7.64	13.281	
1,200.00	1,200.00	1,203.01	1,202.68	4.21	4.13	-97.122	-12.25	-98.08	98.88	90.54	8.34	11.863	
1,300.00	1,300.00	1,303.30	1,302.65	4.57	4.48	-101.487	-19.13	-94.15	96.11	87.07	9.04	10.634	
1,400.00	1,400.00	1,403.16	1,402.06	4.92	4.82	-107.041	-27.41	-89.42	93.54	83.80	9.74	9.600	
1,500.00	1,500.00	1,502.67	1,501.07	5.28	5.17	-113.067	-35.99	-84.51	91.86	81.41	10.45	8.788	
1,600.00	1,600.00	1,602.17	1,600.08	5.64	5.52	-119.245	-44.57	-79.60	91.23	80.07	11.16	8.173	
1,608.40	1,608.40	1,610.53	1,608.40	5.67	5.55	-119.767	-45.29	-79.19	91.23	80.00	11.22	8.129	CC
1,700.00	1,700.00	1,701.68	1,699.10	6.00	5.87	-125.435	-53.15	-74.69	91.68	79.81	11.87	7.721	ES
1,800.00	1,800.00	1,801.18	1,798.11	6.36	6.23	-131.495	-61.73	-69.79	93.19	80.61	12.58	7.405	
1,900.00	1,900.00	1,900.69	1,897.12	6.72	6.58	-137.302	-70.31	-64.88	95.72	82.42	13.29	7.200	
2,000.00	2,000.00	2,000.19	1,996.13	7.07	6.94	-142.759	-78.89	-59.97	99.18	85.17	14.00	7.082	
2,100.00	2,100.00	2,099.70	2,095.15	7.43	7.30	-147.810	-87.48	-55.07	103.48	88.77	14.71	7.033	SF
2,200.00	2,200.00	2,199.20	2,194.16	7.79	7.66	-152.428	-96.06	-50.16	108.52	93.10	15.42	7.037	
2,300.00	2,300.00	2,298.71	2,293.17	8.15	8.02	-156.614	-104.64	-45.25	114.21	98.08	16.13	7.081	
2,400.00	2,400.00	2,398.21	2,392.19	8.51	8.38	-160.387	-113.22	-40.34	120.45	103.61	16.84	7.154	
2,500.00	2,500.00	2,497.72	2,491.20	8.87	8.74	-163.778	-121.80	-35.44	127.15	109.61	17.54	7.248	
2,600.00	2,600.00	2,597.22	2,590.21	9.23	9.10	-166.821	-130.38	-30.53	134.26	116.01	18.25	7.357	
2,700.00	2,700.00	2,696.73	2,689.23	9.58	9.46	-169.553	-138.96	-25.62	141.71	122.76	18.96	7.475	
2,800.00	2,800.00	2,796.23	2,788.24	9.94	9.82	-172.008	-147.54	-20.71	149.45	129.79	19.67	7.599	
2,900.00	2,900.00	2,895.74	2,887.25	10.30	10.18	-174.219	-156.12	-15.81	157.44	137.06	20.38	7.727	
3,000.00	3,000.00	2,995.25	2,986.27	10.66	10.54	-176.214	-164.71	-10.90	165.64	144.55	21.08	7.856	
3,100.00	3,099.99	3,094.72	3,085.25	11.01	10.91	-178.417	-173.28	-5.99	173.50	151.72	21.78	7.966	
3,200.00	3,199.91	3,194.09	3,184.13	11.34	11.27	178.796	-181.85	-1.09	180.68	158.21	22.46	8.043	
3,300.00	3,299.69	3,293.28	3,282.83	11.68	11.63	175.465	-190.41	3.80	187.46	164.32	23.15	8.099	
3,400.00	3,399.27	3,392.24	3,381.29	12.02	11.99	171.625	-198.94	8.68	194.21	170.38	23.83	8.150	
3,500.00	3,498.57	3,490.88	3,479.45	12.36	12.35	167.326	-207.45	13.54	201.34	176.82	24.51	8.213	
3,600.00	3,597.54	3,589.14	3,577.23	12.70	12.71	162.630	-215.92	18.39	209.28	184.08	25.20	8.305	
3,700.00	3,696.09	3,686.96	3,674.56	13.04	13.07	157.622	-224.36	23.21	218.50	192.61	25.88	8.441	
3,800.00	3,794.16	3,784.27	3,771.39	13.39	13.42	152.408	-232.75	28.01	229.44	202.87	26.57	8.635	
3,900.00	3,891.70	3,881.00	3,867.64	13.74	13.78	147.106	-241.09	32.78	242.54	215.27	27.26	8.896	
4,000.00	3,988.62	3,977.08	3,963.25	14.09	14.13	141.835	-249.38	37.52	258.13	230.17	27.95	9.234	
4,100.00	4,085.12	4,072.73	4,058.42	14.44	14.48	136.889	-257.63	42.24	276.17	247.52	28.65	9.641	
4,200.00	4,181.62	4,168.37	4,153.59	14.80	14.83	132.575	-265.87	46.95	296.00	266.67	29.34	10.089	
4,300.00	4,278.12	4,264.01	4,248.76	15.16	15.18	128.822	-274.12	51.67	317.29	287.26	30.03	10.565	
4,400.00	4,374.62	4,359.65	4,343.92	15.52	15.53	125.554	-282.37	56.39	339.76	309.03	30.73	11.057	
4,500.00	4,471.12	4,455.29	4,439.09	15.89	15.88	122.700	-290.62	61.10	363.18	331.76	31.42	11.558	
4,600.00	4,567.62	4,550.93	4,534.26	16.26	16.23	120.199	-298.86	65.82	387.39	355.27	32.12	12.062	
4,700.00	4,664.11	4,646.57	4,629.43	16.63	16.58	117.996	-307.11	70.54	412.25	379.44	32.81	12.564	
4,800.00	4,760.61	4,742.21	4,724.59	17.00	16.93	116.047	-315.36	75.25	437.64	404.14	33.51	13.061	
4,900.00	4,857.11	4,837.86	4,819.76	17.37	17.28	114.314	-323.61	79.97	463.49	429.28	34.20	13.551	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.61	4,933.50	4,914.93	17.75	17.63	112.766	-331.86	84.69	489.71	454.81	34.90	14.032	
5,100.00	5,050.11	5,029.14	5,010.10	18.12	17.98	111.376	-340.10	89.40	516.25	480.66	35.60	14.503	
5,200.00	5,146.61	5,124.78	5,105.26	18.50	18.33	110.123	-348.35	94.12	543.07	506.77	36.29	14.964	
5,300.00	5,243.11	5,220.42	5,200.43	18.88	18.68	108.989	-356.60	98.84	570.12	533.13	36.99	15.413	
5,400.00	5,339.61	5,316.06	5,295.60	19.26	19.03	107.958	-364.85	103.55	597.37	559.68	37.69	15.851	
5,500.00	5,436.11	5,411.70	5,390.77	19.65	19.39	107.018	-373.10	108.27	624.80	586.41	38.38	16.277	
5,600.00	5,532.60	5,507.34	5,485.94	20.03	19.74	106.157	-381.34	112.99	652.38	613.30	39.08	16.692	
5,700.00	5,629.10	5,602.98	5,581.10	20.41	20.09	105.366	-389.59	117.70	680.10	640.32	39.78	17.095	
5,800.00	5,725.60	5,698.62	5,676.27	20.80	20.44	104.637	-397.84	122.42	707.94	667.46	40.48	17.488	
5,900.00	5,822.10	5,794.26	5,771.44	21.19	20.79	103.963	-406.09	127.14	735.88	694.70	41.18	17.869	
6,000.00	5,918.60	5,889.90	5,866.61	21.58	21.14	103.339	-414.33	131.85	763.92	722.04	41.88	18.240	
6,100.00	6,015.10	5,985.55	5,961.77	21.96	21.49	102.760	-422.58	136.57	792.04	749.46	42.58	18.600	
6,200.00	6,111.60	6,081.19	6,056.94	22.35	21.84	102.220	-430.83	141.29	820.24	776.95	43.28	18.950	
6,300.00	6,208.10	6,176.83	6,152.11	22.74	22.19	101.716	-439.08	146.00	848.50	804.52	43.99	19.291	
6,400.00	6,304.59	6,272.47	6,247.28	23.14	22.54	101.245	-447.33	150.72	876.83	832.14	44.69	19.621	
6,500.00	6,401.09	6,368.11	6,342.44	23.53	22.90	100.803	-455.57	155.44	905.21	859.82	45.39	19.943	
6,600.00	6,497.59	6,464.55	6,438.41	23.92	23.25	100.392	-463.89	160.19	933.65	887.55	46.10	20.253	
6,700.00	6,594.09	6,571.75	6,545.18	24.32	23.64	100.002	-472.14	164.91	961.47	914.59	46.88	20.509	
6,800.00	6,690.59	6,679.42	6,652.59	24.71	24.03	99.546	-478.68	168.65	988.21	940.55	47.66	20.736	
6,900.00	6,787.09	6,787.50	6,760.53	25.10	24.42	99.026	-483.49	171.40	1,013.88	965.45	48.43	20.936	
7,000.00	6,883.59	6,895.92	6,868.89	25.50	24.81	98.445	-486.53	173.14	1,038.51	989.31	49.19	21.111	
7,100.00	6,980.09	7,004.59	6,977.55	25.90	25.20	97.803	-487.80	173.86	1,062.13	1,012.18	49.95	21.264	
7,200.00	7,076.59	7,103.63	7,076.59	26.29	25.52	97.130	-487.84	173.89	1,085.13	1,034.50	50.63	21.432	
7,300.00	7,173.08	7,200.13	7,173.08	26.69	25.83	96.483	-487.84	173.89	1,108.26	1,056.96	51.30	21.605	
7,400.00	7,269.58	7,296.63	7,269.58	27.09	26.15	95.863	-487.84	173.89	1,131.52	1,079.55	51.96	21.775	
7,500.00	7,366.08	7,393.13	7,366.08	27.49	26.46	95.267	-487.84	173.89	1,154.90	1,102.27	52.63	21.943	
7,600.00	7,462.58	7,489.62	7,462.58	27.88	26.78	94.696	-487.84	173.89	1,178.41	1,125.11	53.30	22.108	
7,700.00	7,559.08	7,586.12	7,559.08	28.28	27.09	94.147	-487.84	173.89	1,202.03	1,148.05	53.97	22.272	
7,800.00	7,655.58	7,682.62	7,655.58	28.68	27.41	93.619	-487.84	173.89	1,225.75	1,171.11	54.64	22.433	
7,900.00	7,752.08	7,779.12	7,752.08	29.08	27.73	93.111	-487.84	173.89	1,249.57	1,194.26	55.31	22.591	
8,000.00	7,848.58	7,875.62	7,848.58	29.48	28.04	92.622	-487.84	173.89	1,273.49	1,217.51	55.98	22.748	
8,100.00	7,945.08	7,972.12	7,945.08	29.88	28.36	92.151	-487.84	173.89	1,297.50	1,240.85	56.66	22.901	
8,200.00	8,041.64	8,068.69	8,041.64	30.28	28.68	91.702	-487.84	173.89	1,321.36	1,264.03	57.33	23.049	
8,300.00	8,138.76	8,165.81	8,138.76	30.68	29.01	91.304	-487.84	173.89	1,343.31	1,285.30	58.01	23.158	
8,400.00	8,236.47	8,263.51	8,236.47	31.07	29.33	90.959	-487.84	173.89	1,362.96	1,304.27	58.68	23.225	
8,500.00	8,334.70	8,361.75	8,334.70	31.45	29.66	90.664	-487.84	173.89	1,380.28	1,320.91	59.37	23.250	
8,600.00	8,433.39	8,460.43	8,433.39	31.83	29.99	90.416	-487.84	173.89	1,395.24	1,335.19	60.05	23.234	
8,700.00	8,532.47	8,559.51	8,532.47	32.19	30.32	90.211	-487.84	173.89	1,407.82	1,347.09	60.74	23.179	
8,800.00	8,631.86	8,658.91	8,631.86	32.56	30.65	90.049	-487.84	173.89	1,418.00	1,356.58	61.42	23.086	
8,900.00	8,731.51	8,758.56	8,731.51	32.91	30.98	89.927	-487.84	173.89	1,425.76	1,363.65	62.11	22.955	
9,000.00	8,831.35	8,858.39	8,831.35	33.26	31.32	89.843	-487.84	173.89	1,431.10	1,368.30	62.80	22.790	
9,100.00	8,931.30	8,958.34	8,931.30	33.61	31.66	89.799	-487.84	173.89	1,433.99	1,370.51	63.48	22.589	
9,200.00	9,031.29	9,058.34	9,031.29	33.94	31.99	89.790	-487.84	173.89	1,434.57	1,370.41	64.16	22.360	
9,300.00	9,131.29	9,158.34	9,131.29	34.27	32.33	89.790	-487.84	173.89	1,434.57	1,369.74	64.83	22.128	
9,400.00	9,231.06	9,241.96	9,214.87	34.59	32.61	89.923	-486.02	174.14	1,435.62	1,370.20	65.42	21.945	
9,500.00	9,328.48	9,315.84	9,287.93	34.90	32.85	90.372	-475.49	175.62	1,440.64	1,374.71	65.93	21.851	
9,600.00	9,420.59	9,390.03	9,359.30	35.18	33.09	91.096	-455.64	178.41	1,449.69	1,383.28	66.41	21.829	
9,700.00	9,504.61	9,464.68	9,427.90	35.42	33.30	92.048	-426.63	182.49	1,462.57	1,395.71	66.87	21.873	
9,800.00	9,577.97	9,539.99	9,492.67	35.60	33.51	93.158	-388.66	187.82	1,478.98	1,411.69	67.29	21.978	
9,900.00	9,638.46	9,616.27	9,552.56	35.72	33.69	94.346	-341.98	194.38	1,498.53	1,430.83	67.69	22.137	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,684.22	9,693.91	9,606.55	35.79	33.86	95.522	-286.81	202.14	1,520.75	1,452.68	68.07	22.341	
10,100.00	9,713.87	9,773.48	9,653.55	35.81	34.00	96.587	-223.31	211.06	1,545.12	1,476.71	68.41	22.585	
10,200.00	9,726.51	9,855.72	9,692.32	35.81	34.14	97.444	-151.56	221.15	1,571.06	1,502.35	68.71	22.865	
10,300.00	9,726.69	9,943.43	9,721.78	35.80	34.26	97.952	-69.84	232.63	1,597.06	1,528.10	68.96	23.160	
10,400.00	9,726.34	10,039.80	9,739.24	35.79	34.36	98.045	23.90	245.81	1,620.27	1,551.10	69.17	23.424	
10,500.00	9,725.98	10,196.86	9,742.00	35.78	34.50	95.984	179.57	265.89	1,639.29	1,569.89	69.40	23.619	
10,600.00	9,725.63	10,430.60	9,742.00	35.77	34.80	91.310	412.77	280.76	1,648.09	1,578.28	69.80	23.610	
10,700.00	9,725.27	10,577.21	9,742.00	35.76	35.05	89.689	559.37	281.11	1,648.58	1,578.38	70.19	23.486	
10,800.00	9,724.91	10,677.21	9,742.00	35.75	35.24	89.689	659.37	280.57	1,648.58	1,578.01	70.57	23.362	
10,900.00	9,724.56	10,777.21	9,742.00	35.75	35.46	89.689	759.37	280.02	1,648.57	1,577.60	70.98	23.227	
11,000.00	9,724.20	10,877.21	9,742.00	35.75	35.69	89.689	859.37	279.48	1,648.57	1,577.14	71.43	23.080	
11,100.00	9,723.84	10,977.21	9,742.00	35.95	35.94	89.689	959.37	278.94	1,648.57	1,576.65	71.92	22.922	
11,200.00	9,723.48	11,077.21	9,742.00	36.22	36.22	89.689	1,059.36	278.40	1,648.57	1,576.12	72.45	22.755	
11,300.00	9,723.13	11,177.21	9,742.00	36.50	36.51	89.689	1,159.36	277.85	1,648.57	1,575.55	73.02	22.578	
11,400.00	9,722.77	11,277.21	9,742.00	36.80	36.82	89.689	1,259.36	277.31	1,648.57	1,574.95	73.62	22.394	
11,500.00	9,722.41	11,377.21	9,742.00	37.12	37.14	89.689	1,359.36	276.77	1,648.57	1,574.31	74.26	22.201	
11,600.00	9,722.06	11,477.21	9,742.00	37.45	37.49	89.689	1,459.36	276.23	1,648.57	1,573.64	74.93	22.002	
11,700.00	9,721.70	11,577.21	9,742.00	37.80	37.85	89.689	1,559.35	275.69	1,648.57	1,572.93	75.64	21.796	
11,800.00	9,721.34	11,677.20	9,742.00	38.17	38.23	89.689	1,659.35	275.14	1,648.56	1,572.19	76.38	21.585	
11,900.00	9,720.98	11,777.20	9,742.00	38.55	38.62	89.689	1,759.35	274.60	1,648.56	1,571.42	77.15	21.369	
12,000.00	9,720.63	11,877.20	9,742.00	38.95	39.03	89.689	1,859.35	274.06	1,648.56	1,570.61	77.95	21.149	
12,100.00	9,720.27	11,977.20	9,742.00	39.37	39.45	89.689	1,959.34	273.52	1,648.56	1,569.78	78.78	20.925	
12,200.00	9,719.91	12,077.20	9,742.00	39.79	39.89	89.689	2,059.34	272.97	1,648.56	1,568.92	79.65	20.699	
12,300.00	9,719.55	12,177.20	9,742.00	40.24	40.34	89.689	2,159.34	272.43	1,648.56	1,568.03	80.54	20.470	
12,400.00	9,719.20	12,277.20	9,742.00	40.69	40.80	89.689	2,259.34	271.89	1,648.56	1,567.11	81.45	20.239	
12,500.00	9,718.84	12,377.20	9,742.00	41.16	41.28	89.689	2,359.34	271.35	1,648.56	1,566.17	82.40	20.008	
12,600.00	9,718.48	12,477.20	9,742.00	41.64	41.77	89.689	2,459.33	270.81	1,648.56	1,565.20	83.37	19.775	
12,700.00	9,718.13	12,577.20	9,742.00	42.13	42.27	89.689	2,559.33	270.26	1,648.56	1,564.20	84.36	19.542	
12,726.22	9,718.03	12,603.42	9,742.00	42.26	42.41	89.689	2,585.55	270.12	1,648.56	1,563.94	84.62	19.481	
12,800.00	9,717.77	12,677.20	9,742.00	42.64	42.79	89.689	2,659.33	269.72	1,648.56	1,563.19	85.38	19.309	
12,900.00	9,717.41	12,777.20	9,742.00	43.15	43.31	89.689	2,759.33	269.18	1,648.56	1,562.15	86.42	19.077	
13,000.00	9,717.05	12,877.20	9,742.00	43.68	43.85	89.689	2,859.33	268.64	1,648.56	1,561.08	87.48	18.845	
13,100.00	9,716.70	12,977.20	9,742.00	44.22	44.40	89.689	2,959.32	268.09	1,648.56	1,560.00	88.56	18.615	
13,200.00	9,716.34	13,077.20	9,742.00	44.77	44.95	89.689	3,059.32	267.55	1,648.56	1,558.90	89.67	18.386	
13,300.00	9,715.98	13,177.20	9,742.00	45.32	45.52	89.689	3,159.32	267.01	1,648.56	1,557.77	90.79	18.158	
13,400.00	9,715.62	13,277.19	9,742.00	45.89	46.09	89.689	3,259.32	266.47	1,648.56	1,556.63	91.93	17.933	
13,500.00	9,715.27	13,377.19	9,742.00	46.47	46.68	89.689	3,359.32	265.92	1,648.56	1,555.47	93.09	17.709	
13,600.00	9,714.91	13,477.19	9,742.00	47.05	47.27	89.689	3,459.31	265.38	1,648.56	1,554.29	94.27	17.488	
13,700.00	9,714.55	13,577.19	9,742.00	47.65	47.87	89.689	3,559.31	264.84	1,648.56	1,553.10	95.47	17.269	
13,800.00	9,714.20	13,677.19	9,742.00	48.25	48.48	89.689	3,659.31	264.30	1,648.57	1,551.89	96.68	17.052	
13,900.00	9,713.84	13,777.19	9,742.00	48.86	49.10	89.689	3,759.31	263.76	1,648.57	1,550.66	97.91	16.838	
14,000.00	9,713.48	13,877.19	9,742.00	49.48	49.73	89.689	3,859.30	263.21	1,648.57	1,549.42	99.15	16.627	
14,100.00	9,713.12	13,977.19	9,742.00	50.10	50.36	89.689	3,959.30	262.67	1,648.57	1,548.16	100.41	16.419	
14,200.00	9,712.77	14,077.19	9,742.00	50.73	51.00	89.689	4,059.30	262.13	1,648.57	1,546.89	101.68	16.214	
14,300.00	9,712.41	14,177.19	9,742.00	51.37	51.64	89.689	4,159.30	261.59	1,648.57	1,545.61	102.96	16.012	
14,400.00	9,712.05	14,277.19	9,742.00	52.02	52.30	89.689	4,259.30	261.04	1,648.57	1,544.31	104.26	15.812	
14,500.00	9,711.70	14,377.19	9,742.00	52.67	52.95	89.689	4,359.29	260.50	1,648.57	1,543.00	105.57	15.616	
14,600.00	9,711.34	14,477.19	9,742.00	53.33	53.62	89.689	4,459.29	259.96	1,648.57	1,541.68	106.89	15.423	
14,700.00	9,710.98	14,577.19	9,742.00	53.99	54.29	89.689	4,559.29	259.42	1,648.58	1,540.35	108.23	15.233	
14,800.00	9,710.62	14,677.19	9,742.00	54.66	54.96	89.689	4,659.29	258.88	1,648.58	1,539.01	109.57	15.046	
14,900.00	9,710.27	14,777.18	9,742.00	55.34	55.64	89.689	4,759.29	258.33	1,648.58	1,537.65	110.93	14.862	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,000.00	9,709.91	14,877.18	9,742.00	56.02	56.33	89.689	4,859.28	257.79	1,648.58	1,536.29	112.29	14.681	
15,100.00	9,709.55	14,977.18	9,742.00	56.70	57.02	89.689	4,959.28	257.25	1,648.58	1,534.91	113.67	14.503	
15,200.00	9,709.19	15,077.18	9,742.00	57.39	57.72	89.689	5,059.28	256.71	1,648.58	1,533.53	115.06	14.328	
15,300.00	9,708.84	15,177.18	9,742.00	58.09	58.42	89.689	5,159.28	256.16	1,648.59	1,532.13	116.45	14.157	
15,400.00	9,708.48	15,277.18	9,742.00	58.79	59.12	89.689	5,259.28	255.62	1,648.59	1,530.73	117.86	13.988	
15,500.00	9,708.12	15,377.18	9,742.00	59.49	59.83	89.689	5,359.27	255.08	1,648.59	1,529.32	119.27	13.822	
15,600.00	9,707.77	15,477.18	9,742.00	60.20	60.54	89.689	5,459.27	254.54	1,648.59	1,527.90	120.69	13.660	
15,700.00	9,707.41	15,577.18	9,742.00	60.91	61.26	89.689	5,559.27	254.00	1,648.60	1,526.47	122.12	13.500	
15,800.00	9,707.05	15,677.18	9,742.00	61.63	61.98	89.689	5,659.27	253.45	1,648.60	1,525.04	123.56	13.343	
15,900.00	9,706.69	15,777.18	9,742.00	62.35	62.70	89.689	5,759.26	252.91	1,648.60	1,523.60	125.00	13.188	
16,000.00	9,706.34	15,877.18	9,742.00	63.07	63.43	89.689	5,859.26	252.37	1,648.60	1,522.15	126.46	13.037	
16,100.00	9,705.98	15,977.18	9,742.00	63.80	64.16	89.689	5,959.26	251.83	1,648.61	1,520.69	127.91	12.888	
16,200.00	9,705.62	16,077.18	9,742.00	64.53	64.90	89.689	6,059.26	251.28	1,648.61	1,519.23	129.38	12.742	
16,300.00	9,705.27	16,177.18	9,742.00	65.27	65.64	89.689	6,159.26	250.74	1,648.61	1,517.76	130.85	12.599	
16,400.00	9,704.91	16,277.18	9,742.00	66.00	66.38	89.689	6,259.25	250.20	1,648.61	1,516.28	132.33	12.458	
16,500.00	9,704.55	16,377.17	9,742.00	66.74	67.12	89.689	6,359.25	249.66	1,648.62	1,514.80	133.82	12.320	
16,600.00	9,704.19	16,477.17	9,742.00	67.49	67.87	89.689	6,459.25	249.11	1,648.62	1,513.31	135.31	12.184	
16,700.00	9,703.84	16,577.17	9,742.00	68.23	68.62	89.689	6,559.25	248.57	1,648.62	1,511.82	136.80	12.051	
16,800.00	9,703.48	16,677.17	9,742.00	68.98	69.37	89.689	6,659.25	248.03	1,648.63	1,510.32	138.31	11.920	
16,900.00	9,703.12	16,777.17	9,742.00	69.73	70.13	89.689	6,759.24	247.49	1,648.63	1,508.81	139.81	11.792	
17,000.00	9,702.76	16,877.17	9,742.00	70.49	70.89	89.689	6,859.24	246.95	1,648.63	1,507.30	141.33	11.665	
17,100.00	9,702.41	16,977.17	9,742.00	71.25	71.65	89.689	6,959.24	246.40	1,648.64	1,505.79	142.84	11.541	
17,200.00	9,702.05	17,077.17	9,742.00	72.01	72.41	89.689	7,059.24	245.86	1,648.64	1,504.27	144.37	11.420	
17,300.00	9,701.69	17,177.17	9,742.00	72.77	73.17	89.689	7,159.24	245.32	1,648.64	1,502.75	145.89	11.300	
17,400.00	9,701.34	17,277.17	9,742.00	73.53	73.94	89.689	7,259.23	244.78	1,648.65	1,501.22	147.43	11.183	
17,500.00	9,700.98	17,377.17	9,742.00	74.30	74.71	89.689	7,359.23	244.23	1,648.65	1,499.69	148.96	11.068	
17,600.00	9,700.62	17,477.17	9,742.00	75.07	75.48	89.689	7,459.23	243.69	1,648.65	1,498.15	150.50	10.954	
17,700.00	9,700.26	17,577.17	9,742.00	75.84	76.26	89.689	7,559.23	243.15	1,648.66	1,496.61	152.05	10.843	
17,800.00	9,699.91	17,677.17	9,742.00	76.61	77.03	89.689	7,659.22	242.61	1,648.66	1,495.06	153.60	10.734	
17,900.00	9,699.55	17,777.17	9,742.00	77.39	77.81	89.689	7,759.22	242.07	1,648.66	1,493.52	155.15	10.626	
18,000.00	9,699.19	17,877.17	9,742.00	78.16	78.59	89.689	7,859.22	241.52	1,648.67	1,491.96	156.71	10.521	
18,100.00	9,698.83	17,977.16	9,742.00	78.94	79.37	89.689	7,959.22	240.98	1,648.67	1,490.41	158.27	10.417	
18,200.00	9,698.48	18,077.16	9,742.00	79.72	80.15	89.689	8,059.22	240.44	1,648.68	1,488.85	159.83	10.315	
18,300.00	9,698.12	18,177.16	9,742.00	80.51	80.94	89.689	8,159.21	239.90	1,648.68	1,487.28	161.40	10.215	
18,400.00	9,697.76	18,277.16	9,742.00	81.29	81.72	89.689	8,259.21	239.35	1,648.69	1,485.72	162.97	10.117	
18,500.00	9,697.41	18,377.16	9,742.00	82.08	82.51	89.689	8,359.21	238.81	1,648.69	1,484.15	164.54	10.020	
18,600.00	9,697.05	18,477.16	9,742.00	82.86	83.30	89.689	8,459.21	238.27	1,648.69	1,482.58	166.12	9.925	
18,700.00	9,696.69	18,577.16	9,742.00	83.65	84.09	89.689	8,559.21	237.73	1,648.70	1,481.00	167.70	9.831	
18,800.00	9,696.33	18,677.16	9,742.00	84.44	84.89	89.689	8,659.20	237.19	1,648.70	1,479.42	169.28	9.739	
18,900.00	9,695.98	18,777.16	9,742.00	85.24	85.68	89.689	8,759.20	236.64	1,648.71	1,477.84	170.87	9.649	
19,000.00	9,695.62	18,877.16	9,742.00	86.03	86.48	89.689	8,859.20	236.10	1,648.71	1,476.26	172.46	9.560	
19,100.00	9,695.26	18,977.16	9,742.00	86.82	87.27	89.689	8,959.20	235.56	1,648.72	1,474.67	174.05	9.473	
19,200.00	9,694.91	19,077.16	9,742.00	87.62	88.07	89.689	9,059.20	235.02	1,648.72	1,473.08	175.64	9.387	
19,300.00	9,694.55	19,177.16	9,742.00	88.42	88.87	89.689	9,159.19	234.47	1,648.73	1,471.49	177.24	9.302	
19,400.00	9,694.19	19,277.16	9,742.00	89.22	89.67	89.689	9,259.19	233.93	1,648.73	1,469.90	178.84	9.219	
19,500.00	9,693.83	19,377.16	9,742.00	90.02	90.47	89.689	9,359.19	233.39	1,648.74	1,468.30	180.44	9.137	
19,600.00	9,693.48	19,477.15	9,742.00	90.82	91.28	89.689	9,459.19	232.85	1,648.74	1,466.70	182.04	9.057	
19,700.00	9,693.12	19,577.15	9,742.00	91.62	92.08	89.689	9,559.18	232.30	1,648.75	1,465.10	183.65	8.978	
19,800.00	9,692.76	19,677.15	9,742.00	92.43	92.89	89.689	9,659.18	231.76	1,648.76	1,463.50	185.26	8.900	
19,900.00	9,692.40	19,777.15	9,742.00	93.23	93.69	89.689	9,759.18	231.22	1,648.76	1,461.89	186.87	8.823	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 121H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,000.00	9,692.05	19,877.15	9,742.00	94.04	94.50	89.689	9,859.18	230.68	1,648.77	1,460.28	188.48	8.748	
20,100.00	9,691.69	19,977.15	9,742.00	94.84	95.31	89.689	9,959.18	230.14	1,648.77	1,458.67	190.10	8.673	
20,150.35	9,691.51	20,027.50	9,742.00	95.25	95.72	89.689	10,009.52	229.86	1,648.77	1,457.86	190.91	8.636	

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 125H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.968	0.04	-80.11	80.11				
100.00	100.00	100.00	100.00	0.26	0.26	-89.968	0.04	-80.11	80.11	79.59	0.53	152.033	
200.00	200.00	200.00	200.00	0.62	0.62	-89.968	0.04	-80.11	80.11	78.87	1.24	64.406	
300.00	300.00	300.00	300.00	0.98	0.98	-89.968	0.04	-80.11	80.11	78.15	1.96	40.857	
400.00	400.00	400.00	400.00	1.34	1.34	-89.968	0.04	-80.11	80.11	77.44	2.68	29.918	
500.00	500.00	500.00	500.00	1.70	1.70	-89.968	0.04	-80.11	80.11	76.72	3.39	23.600	
600.00	600.00	600.00	600.00	2.06	2.06	-89.968	0.04	-80.11	80.11	76.00	4.11	19.485	
700.00	700.00	700.00	700.00	2.41	2.41	-89.968	0.04	-80.11	80.11	75.29	4.83	16.592	
800.00	800.00	800.00	800.00	2.77	2.77	-89.968	0.04	-80.11	80.11	74.57	5.55	14.447	
900.00	900.00	900.00	900.00	3.13	3.13	-89.968	0.04	-80.11	80.11	73.85	6.26	12.793	
1,000.00	1,000.00	1,000.00	1,000.00	3.49	3.49	-89.968	0.04	-80.11	80.11	73.13	6.98	11.479	
1,100.00	1,100.00	1,100.00	1,100.00	3.85	3.85	-89.968	0.04	-80.11	80.11	72.42	7.70	10.409	
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	-89.968	0.04	-80.11	80.11	71.70	8.41	9.522	CC
1,300.00	1,300.00	1,298.93	1,298.92	4.57	4.55	-90.355	-0.50	-80.77	80.78	71.67	9.11	8.866	ES
1,400.00	1,400.00	1,397.79	1,397.75	4.92	4.88	-91.476	-2.13	-82.74	82.80	73.01	9.80	8.453	
1,500.00	1,500.00	1,496.54	1,496.41	5.28	5.21	-93.226	-4.85	-86.02	86.24	75.75	10.48	8.227	
1,600.00	1,600.00	1,595.11	1,594.80	5.64	5.54	-95.447	-8.64	-90.60	91.16	80.00	11.17	8.164	
1,700.00	1,700.00	1,693.45	1,692.84	6.00	5.88	-97.965	-13.50	-96.47	97.67	85.82	11.85	8.243	
1,800.00	1,800.00	1,791.50	1,790.45	6.36	6.22	-100.610	-19.41	-103.61	105.85	93.32	12.53	8.448	
1,900.00	1,900.00	1,889.20	1,887.54	6.72	6.56	-103.243	-26.36	-112.00	115.74	102.53	13.21	8.764	
2,000.00	2,000.00	1,986.50	1,984.03	7.07	6.90	-105.760	-34.33	-121.63	127.39	113.51	13.88	9.180	
2,100.00	2,100.00	2,085.33	2,081.91	7.43	7.25	-108.043	-43.06	-132.17	140.18	125.61	14.57	9.621	
2,200.00	2,200.00	2,184.37	2,179.99	7.79	7.60	-109.948	-51.81	-142.74	153.17	137.90	15.27	10.032	
2,300.00	2,300.00	2,283.40	2,278.07	8.15	7.95	-111.554	-60.56	-153.31	166.29	150.32	15.97	10.415	
2,400.00	2,400.00	2,382.44	2,376.15	8.51	8.30	-112.925	-69.31	-163.88	179.53	162.86	16.67	10.771	
2,500.00	2,500.00	2,481.47	2,474.23	8.87	8.66	-114.107	-78.06	-174.45	192.85	175.48	17.37	11.103	
2,600.00	2,600.00	2,580.51	2,572.31	9.23	9.02	-115.136	-86.81	-185.02	206.25	188.17	18.07	11.413	
2,700.00	2,700.00	2,679.55	2,670.39	9.58	9.38	-116.039	-95.56	-195.59	219.70	200.92	18.78	11.701	
2,800.00	2,800.00	2,778.58	2,768.47	9.94	9.74	-116.839	-104.32	-206.17	233.20	213.72	19.48	11.971	
2,900.00	2,900.00	2,877.62	2,866.55	10.30	10.10	-117.550	-113.07	-216.74	246.73	226.55	20.18	12.224	
3,000.00	3,000.00	2,976.65	2,964.63	10.66	10.46	-118.188	-121.82	-227.31	260.31	239.42	20.89	12.460	
3,100.00	3,099.99	3,075.85	3,062.87	11.01	10.82	-118.799	-130.59	-237.89	272.62	251.03	21.58	12.630	
3,200.00	3,199.91	3,175.32	3,161.38	11.34	11.19	-119.433	-139.38	-248.51	282.38	260.11	22.27	12.681	
3,300.00	3,299.69	3,275.00	3,260.10	11.68	11.55	-120.105	-148.18	-259.15	289.60	266.64	22.96	12.615	
3,400.00	3,399.27	3,374.82	3,358.96	12.02	11.92	-120.828	-157.01	-269.81	294.28	270.63	23.65	12.445	
3,500.00	3,498.57	3,474.71	3,457.89	12.36	12.28	-121.618	-165.83	-280.47	296.42	272.09	24.34	12.180	
3,600.00	3,597.54	3,574.61	3,556.82	12.70	12.65	-122.494	-174.66	-291.13	296.05	271.02	25.03	11.828	
3,700.00	3,696.09	3,674.44	3,655.69	13.04	13.02	-123.477	-183.48	-301.79	293.19	267.47	25.72	11.398	
3,800.00	3,794.16	3,774.14	3,754.43	13.39	13.39	-124.597	-192.29	-312.43	287.87	261.45	26.41	10.898	
3,900.00	3,891.70	3,873.63	3,852.96	13.74	13.76	-125.890	-201.08	-323.05	280.12	253.02	27.11	10.334	
4,000.00	3,988.62	3,972.86	3,951.23	14.09	14.12	-127.405	-209.85	-333.64	270.02	242.22	27.80	9.714	
4,100.00	4,085.12	4,071.88	4,049.29	14.44	14.49	-129.145	-218.60	-344.21	258.56	230.07	28.49	9.076	
4,200.00	4,181.62	4,170.90	4,147.36	14.80	14.86	-131.046	-227.35	-354.77	247.33	218.14	29.18	8.476	
4,300.00	4,278.12	4,269.92	4,245.42	15.16	15.22	-133.125	-236.10	-365.34	236.39	206.51	29.88	7.912	
4,400.00	4,374.62	4,368.94	4,343.49	15.52	15.59	-135.402	-244.85	-375.91	225.78	195.20	30.58	7.383	
4,500.00	4,471.12	4,467.96	4,441.55	15.89	15.96	-137.899	-253.60	-386.48	215.56	184.28	31.29	6.890	
4,600.00	4,567.62	4,566.98	4,539.62	16.26	16.32	-140.638	-262.35	-397.05	205.79	173.78	32.00	6.430	
4,700.00	4,664.11	4,666.00	4,637.68	16.63	16.69	-143.642	-271.11	-407.62	196.52	163.79	32.72	6.005	
4,800.00	4,760.61	4,765.02	4,735.74	17.00	17.06	-146.932	-279.86	-418.19	187.83	154.37	33.45	5.614	
4,900.00	4,857.11	4,864.03	4,833.81	17.37	17.43	-150.526	-288.61	-428.76	179.80	145.61	34.20	5.258	
5,000.00	4,953.61	4,963.05	4,931.87	17.75	17.80	-154.435	-297.36	-439.33	172.54	137.59	34.95	4.937	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 125H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,050.11	5,062.07	5,029.94	18.12	18.16	-158.662	-306.11	-449.89	166.14	130.42	35.72	4.651	
5,200.00	5,146.61	5,161.09	5,128.00	18.50	18.53	-163.195	-314.86	-460.46	160.70	124.19	36.50	4.402	
5,300.00	5,243.11	5,260.11	5,226.06	18.88	18.90	-168.006	-323.61	-471.03	156.32	119.02	37.30	4.191	
5,400.00	5,339.61	5,359.13	5,324.13	19.26	19.27	-173.049	-332.36	-481.60	153.10	114.98	38.11	4.017	
5,500.00	5,436.11	5,458.15	5,422.19	19.65	19.64	-178.258	-341.11	-492.17	151.10	112.17	38.93	3.881	
5,600.00	5,532.60	5,557.17	5,520.26	20.03	20.01	176.448	-349.86	-502.74	150.38	110.63	39.75	3.783	
5,605.62	5,538.03	5,562.74	5,525.77	20.05	20.03	176.150	-350.35	-503.33	150.38	110.58	39.80	3.779	
5,700.00	5,629.10	5,656.19	5,618.32	20.41	20.38	171.158	-358.61	-513.31	150.95	110.38	40.57	3.721	
5,800.00	5,725.60	5,755.21	5,716.39	20.80	20.74	165.961	-367.36	-523.88	152.81	111.42	41.39	3.692	
5,900.00	5,822.10	5,854.23	5,814.45	21.19	21.11	160.936	-376.11	-534.45	155.90	113.71	42.19	3.695	
6,000.00	5,918.60	5,953.25	5,912.51	21.58	21.48	156.147	-384.86	-545.01	160.15	117.17	42.98	3.726	
6,100.00	6,015.10	6,052.27	6,010.58	21.96	21.85	151.639	-393.61	-555.58	165.48	121.72	43.75	3.782	
6,200.00	6,111.60	6,151.29	6,108.64	22.35	22.22	147.440	-402.36	-566.15	171.78	127.26	44.51	3.859	
6,300.00	6,208.10	6,250.31	6,206.71	22.74	22.59	143.558	-411.11	-576.72	178.95	133.68	45.26	3.953	
6,400.00	6,304.59	6,349.33	6,304.77	23.14	22.96	139.992	-419.86	-587.29	186.89	140.89	46.00	4.063	
6,500.00	6,401.09	6,448.35	6,402.84	23.53	23.33	136.728	-428.61	-597.86	195.51	148.78	46.73	4.184	
6,600.00	6,497.59	6,547.37	6,500.90	23.92	23.70	133.748	-437.36	-608.43	204.72	157.26	47.46	4.314	
6,700.00	6,594.09	6,646.38	6,598.96	24.32	24.07	131.030	-446.11	-619.00	214.44	166.27	48.17	4.451	
6,800.00	6,690.59	6,745.40	6,697.03	24.71	24.44	128.553	-454.86	-629.57	224.62	175.73	48.89	4.595	
6,900.00	6,787.09	6,843.52	6,794.29	25.10	24.80	126.102	-463.09	-639.51	235.35	185.76	49.59	4.746	
7,000.00	6,883.59	6,941.13	6,891.25	25.50	25.17	123.487	-470.23	-648.13	246.96	196.69	50.27	4.912	
7,100.00	6,980.09	7,038.25	6,987.91	25.90	25.52	120.758	-476.29	-655.45	259.60	208.66	50.94	5.096	
7,200.00	7,076.59	7,134.83	7,084.17	26.29	25.87	117.961	-481.28	-661.48	273.39	221.80	51.59	5.299	
7,300.00	7,173.08	7,230.82	7,179.96	26.69	26.22	115.140	-485.21	-666.22	288.46	236.24	52.22	5.524	
7,400.00	7,269.58	7,326.18	7,275.21	27.09	26.56	112.334	-488.10	-669.72	304.92	252.08	52.83	5.771	
7,500.00	7,366.08	7,420.86	7,369.84	27.49	26.89	109.576	-489.97	-671.98	322.85	269.42	53.43	6.043	
7,600.00	7,462.58	7,514.80	7,463.77	27.88	27.22	106.894	-490.84	-673.03	342.32	288.31	54.00	6.339	
7,700.00	7,559.08	7,610.11	7,559.08	28.28	27.54	104.347	-490.92	-673.11	363.21	308.63	54.58	6.655	
7,800.00	7,655.58	7,706.61	7,655.58	28.68	27.85	102.066	-490.92	-673.11	384.81	329.64	55.17	6.975	
7,900.00	7,752.08	7,803.11	7,752.08	29.08	28.17	100.032	-490.92	-673.11	406.95	351.18	55.77	7.297	
8,000.00	7,848.58	7,899.60	7,848.58	29.48	28.49	98.209	-490.92	-673.11	429.56	373.18	56.38	7.618	
8,100.00	7,945.08	7,996.10	7,945.08	29.88	28.81	96.570	-490.92	-673.11	452.56	395.56	57.00	7.939	
8,200.00	8,041.64	8,092.67	8,041.64	30.28	29.12	95.104	-490.92	-673.11	475.66	418.04	57.63	8.254	
8,300.00	8,138.76	8,189.79	8,138.76	30.68	29.45	93.880	-490.92	-673.11	497.10	438.84	58.26	8.532	
8,400.00	8,236.47	8,287.50	8,236.47	31.07	29.77	92.874	-490.92	-673.11	516.42	457.51	58.91	8.766	
8,500.00	8,334.70	8,385.73	8,334.70	31.45	30.10	92.049	-490.92	-673.11	533.53	473.96	59.57	8.957	
8,600.00	8,433.39	8,484.42	8,433.39	31.83	30.42	91.380	-490.92	-673.11	548.36	488.14	60.23	9.105	
8,700.00	8,532.47	8,583.50	8,532.47	32.19	30.75	90.845	-490.92	-673.11	560.87	499.98	60.90	9.210	
8,800.00	8,631.86	8,682.89	8,631.86	32.56	31.09	90.430	-490.92	-673.11	571.02	509.44	61.57	9.274	
8,900.00	8,731.51	8,782.54	8,731.51	32.91	31.42	90.124	-490.92	-673.11	578.76	516.51	62.25	9.297	
9,000.00	8,831.35	8,882.37	8,831.35	33.26	31.75	89.919	-490.92	-673.11	584.09	521.16	62.93	9.282	
9,100.00	8,931.30	8,982.32	8,931.30	33.61	32.09	89.808	-490.92	-673.11	586.99	523.38	63.61	9.227	
9,200.00	9,031.29	9,082.32	9,031.29	33.94	32.42	89.787	-490.92	-673.11	587.56	523.27	64.29	9.139	
9,300.00	9,131.29	9,182.32	9,131.29	34.27	32.76	89.787	-490.92	-673.11	587.56	522.60	64.96	9.045	
9,400.00	9,231.06	9,286.05	9,234.82	34.59	33.11	89.825	-486.15	-673.36	588.04	522.37	65.68	8.954	
9,500.00	9,328.48	9,391.43	9,337.49	34.90	33.44	89.705	-463.11	-674.57	589.92	523.56	66.36	8.890	
9,600.00	9,420.59	9,496.67	9,434.08	35.18	33.74	89.405	-421.77	-676.74	593.17	526.19	66.98	8.856	
9,700.00	9,504.61	9,601.57	9,521.23	35.42	33.99	88.972	-363.72	-679.78	597.69	530.17	67.52	8.852	
9,800.00	9,577.97	9,705.94	9,595.99	35.60	34.19	88.468	-291.19	-683.58	603.36	535.38	67.98	8.876	
9,900.00	9,638.46	9,809.65	9,656.02	35.72	34.35	87.962	-206.91	-688.00	610.02	541.67	68.35	8.924	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 125H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,684.22	9,912.59	9,699.62	35.79	34.46	87.519	-113.94	-692.87	617.48	548.83	68.65	8.995	
10,100.00	9,713.87	10,014.71	9,725.75	35.81	34.54	87.187	-15.50	-698.03	625.52	556.66	68.87	9.083	
10,200.00	9,726.51	10,112.07	9,734.00	35.81	34.60	87.348	81.26	-703.10	633.93	564.90	69.02	9.184	
10,300.00	9,726.69	10,200.00	9,734.00	35.80	34.65	88.394	169.13	-706.35	643.01	573.81	69.20	9.293	
10,400.00	9,726.34	10,285.07	9,734.00	35.79	34.71	89.689	254.19	-707.19	651.33	581.92	69.41	9.384	
10,500.00	9,725.98	10,384.92	9,734.00	35.78	34.82	89.689	354.04	-707.74	656.71	587.06	69.65	9.429	
10,600.00	9,725.63	10,484.90	9,734.00	35.77	34.95	89.689	454.01	-708.28	658.60	588.67	69.94	9.417	
10,700.00	9,725.27	10,584.89	9,734.00	35.76	35.10	89.689	554.01	-708.82	658.61	588.34	70.26	9.373	
10,800.00	9,724.91	10,684.89	9,734.00	35.75	35.28	89.689	654.01	-709.36	658.61	587.97	70.63	9.324	
10,900.00	9,724.56	10,784.89	9,734.00	35.75	35.48	89.689	754.01	-709.91	658.60	587.56	71.04	9.271	
11,000.00	9,724.20	10,884.89	9,734.00	35.75	35.71	89.689	854.00	-710.45	658.60	587.11	71.49	9.212	
11,100.00	9,723.84	10,984.89	9,734.00	35.95	35.95	89.689	954.00	-710.99	658.60	586.62	71.98	9.150	
11,200.00	9,723.48	11,084.89	9,734.00	36.22	36.21	89.689	1,054.00	-711.54	658.60	586.10	72.51	9.083	
11,242.18	9,723.33	11,127.07	9,734.00	36.34	36.33	89.689	1,096.18	-711.76	658.60	585.86	72.74	9.054	
11,300.00	9,723.13	11,184.89	9,734.00	36.50	36.50	89.689	1,154.00	-712.08	658.60	585.53	73.07	9.013	
11,400.00	9,722.77	11,284.89	9,734.00	36.80	36.80	89.689	1,254.00	-712.62	658.60	584.93	73.67	8.940	
11,500.00	9,722.41	11,384.89	9,734.00	37.12	37.12	89.689	1,353.99	-713.16	658.60	584.30	74.31	8.863	
11,600.00	9,722.06	11,484.89	9,734.00	37.45	37.46	89.689	1,453.99	-713.71	658.60	583.63	74.98	8.784	
11,700.00	9,721.70	11,584.89	9,734.00	37.80	37.82	89.689	1,553.99	-714.25	658.61	582.92	75.68	8.702	
11,800.00	9,721.34	11,684.89	9,734.00	38.17	38.19	89.689	1,653.99	-714.79	658.61	582.19	76.42	8.618	
11,900.00	9,720.98	11,784.89	9,734.00	38.55	38.58	89.689	1,753.98	-715.34	658.61	581.42	77.19	8.532	
12,000.00	9,720.63	11,884.89	9,734.00	38.95	38.98	89.689	1,853.98	-715.88	658.61	580.62	77.99	8.445	
12,100.00	9,720.27	11,984.89	9,734.00	39.37	39.40	89.689	1,953.98	-716.42	658.61	579.79	78.82	8.356	
12,200.00	9,719.91	12,084.88	9,734.00	39.79	39.83	89.689	2,053.98	-716.96	658.61	578.93	79.68	8.265	
12,300.00	9,719.55	12,184.88	9,734.00	40.24	40.28	89.689	2,153.98	-717.51	658.61	578.04	80.57	8.174	
12,400.00	9,719.20	12,284.88	9,734.00	40.69	40.74	89.689	2,253.97	-718.05	658.62	577.13	81.49	8.083	
12,500.00	9,718.84	12,384.88	9,734.00	41.16	41.21	89.689	2,353.97	-718.59	658.62	576.19	82.43	7.990	
12,600.00	9,718.48	12,484.88	9,734.00	41.64	41.70	89.689	2,453.97	-719.14	658.62	575.23	83.40	7.898	
12,700.00	9,718.13	12,584.88	9,734.00	42.13	42.20	89.689	2,553.97	-719.68	658.62	574.24	84.39	7.805	
12,800.00	9,717.77	12,684.88	9,734.00	42.64	42.71	89.689	2,653.97	-720.22	658.63	573.22	85.40	7.712	
12,900.00	9,717.41	12,784.88	9,734.00	43.15	43.23	89.689	2,753.96	-720.76	658.63	572.19	86.44	7.619	
13,000.00	9,717.05	12,884.88	9,734.00	43.68	43.76	89.689	2,853.96	-721.31	658.63	571.13	87.50	7.527	
13,100.00	9,716.70	12,984.88	9,734.00	44.22	44.31	89.689	2,953.96	-721.85	658.64	570.05	88.59	7.435	
13,200.00	9,716.34	13,084.88	9,734.00	44.77	44.86	89.689	3,053.96	-722.39	658.64	568.95	89.69	7.344	
13,300.00	9,715.98	13,184.88	9,734.00	45.32	45.42	89.689	3,153.96	-722.94	658.64	567.83	90.81	7.253	
13,400.00	9,715.62	13,284.88	9,734.00	45.89	45.99	89.689	3,253.95	-723.48	658.65	566.70	91.95	7.163	
13,500.00	9,715.27	13,384.88	9,734.00	46.47	46.58	89.689	3,353.95	-724.02	658.65	565.54	93.11	7.074	
13,600.00	9,714.91	13,484.88	9,734.00	47.05	47.17	89.689	3,453.95	-724.56	658.66	564.37	94.29	6.986	
13,700.00	9,714.55	13,584.88	9,734.00	47.65	47.77	89.689	3,553.95	-725.11	658.66	563.18	95.48	6.898	
13,800.00	9,714.20	13,684.87	9,734.00	48.25	48.37	89.689	3,653.94	-725.65	658.67	561.97	96.69	6.812	
13,900.00	9,713.84	13,784.87	9,734.00	48.86	48.99	89.689	3,753.94	-726.19	658.67	560.75	97.92	6.727	
14,000.00	9,713.48	13,884.87	9,734.00	49.48	49.61	89.689	3,853.94	-726.74	658.68	559.51	99.16	6.642	
14,100.00	9,713.12	13,984.87	9,734.00	50.10	50.24	89.689	3,953.94	-727.28	658.68	558.26	100.42	6.559	
14,200.00	9,712.77	14,084.87	9,734.00	50.73	50.88	89.689	4,053.94	-727.82	658.69	557.00	101.69	6.477	
14,300.00	9,712.41	14,184.87	9,734.00	51.37	51.52	89.689	4,153.93	-728.36	658.69	555.72	102.97	6.397	
14,400.00	9,712.05	14,284.87	9,734.00	52.02	52.17	89.689	4,253.93	-728.91	658.70	554.43	104.27	6.317	
14,500.00	9,711.70	14,384.87	9,734.00	52.67	52.83	89.689	4,353.93	-729.45	658.71	553.13	105.58	6.239	
14,600.00	9,711.34	14,484.87	9,734.00	53.33	53.49	89.689	4,453.93	-729.99	658.71	551.81	106.90	6.162	
14,700.00	9,710.98	14,584.87	9,734.00	53.99	54.16	89.689	4,553.93	-730.54	658.72	550.49	108.23	6.086	
14,800.00	9,710.62	14,684.87	9,734.00	54.66	54.83	89.689	4,653.92	-731.08	658.73	549.15	109.58	6.012	
14,900.00	9,710.27	14,784.87	9,734.00	55.34	55.51	89.689	4,753.92	-731.62	658.73	547.80	110.93	5.938	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 125H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,000.00	9,709.91	14,884.87	9,734.00	56.02	56.19	89.689	4,853.92	-732.16	658.74	546.44	112.30	5.866	
15,100.00	9,709.55	14,984.87	9,734.00	56.70	56.88	89.689	4,953.92	-732.71	658.75	545.07	113.67	5.795	
15,200.00	9,709.19	15,084.87	9,734.00	57.39	57.58	89.689	5,053.92	-733.25	658.76	543.70	115.06	5.725	
15,300.00	9,708.84	15,184.87	9,734.00	58.09	58.28	89.689	5,153.91	-733.79	658.76	542.31	116.45	5.657	
15,400.00	9,708.48	15,284.86	9,734.00	58.79	58.98	89.689	5,253.91	-734.34	658.77	540.91	117.86	5.590	
15,500.00	9,708.12	15,384.86	9,734.00	59.49	59.69	89.689	5,353.91	-734.88	658.78	539.51	119.27	5.524	
15,600.00	9,707.77	15,484.86	9,734.00	60.20	60.40	89.689	5,453.91	-735.42	658.79	538.10	120.69	5.459	
15,700.00	9,707.41	15,584.86	9,734.00	60.91	61.11	89.689	5,553.90	-735.96	658.80	536.68	122.12	5.395	
15,800.00	9,707.05	15,684.86	9,734.00	61.63	61.83	89.689	5,653.90	-736.51	658.80	535.25	123.55	5.332	
15,900.00	9,706.69	15,784.86	9,734.00	62.35	62.56	89.689	5,753.90	-737.05	658.81	533.82	125.00	5.271	
16,000.00	9,706.34	15,884.86	9,734.00	63.07	63.28	89.689	5,853.90	-737.59	658.82	532.38	126.45	5.210	
16,100.00	9,705.98	15,984.86	9,734.00	63.80	64.01	89.689	5,953.90	-738.14	658.83	530.93	127.91	5.151	
16,200.00	9,705.62	16,084.86	9,734.00	64.53	64.75	89.689	6,053.89	-738.68	658.84	529.47	129.37	5.093	
16,300.00	9,705.27	16,184.86	9,734.00	65.27	65.48	89.689	6,153.89	-739.22	658.85	528.01	130.84	5.036	
16,400.00	9,704.91	16,284.86	9,734.00	66.00	66.22	89.689	6,253.89	-739.76	658.86	526.54	132.32	4.979	
16,500.00	9,704.55	16,384.86	9,734.00	66.74	66.97	89.689	6,353.89	-740.31	658.87	525.07	133.80	4.924	
16,600.00	9,704.19	16,484.86	9,734.00	67.49	67.71	89.689	6,453.89	-740.85	658.88	523.59	135.29	4.870	
16,700.00	9,703.84	16,584.86	9,734.00	68.23	68.46	89.689	6,553.88	-741.39	658.89	522.11	136.79	4.817	
16,800.00	9,703.48	16,684.86	9,734.00	68.98	69.21	89.689	6,653.88	-741.94	658.90	520.62	138.29	4.765	
16,900.00	9,703.12	16,784.86	9,734.00	69.73	69.97	89.689	6,753.88	-742.48	658.91	519.12	139.79	4.714	
17,000.00	9,702.76	16,884.85	9,734.00	70.49	70.72	89.689	6,853.88	-743.02	658.92	517.62	141.30	4.663	
17,100.00	9,702.41	16,984.85	9,734.00	71.25	71.48	89.689	6,953.87	-743.56	658.94	516.12	142.82	4.614	
17,200.00	9,702.05	17,084.85	9,734.00	72.01	72.25	89.689	7,053.87	-744.11	658.95	514.61	144.34	4.565	
17,300.00	9,701.69	17,184.85	9,734.00	72.77	73.01	89.689	7,153.87	-744.65	658.96	513.09	145.87	4.518	
17,400.00	9,701.34	17,284.85	9,734.00	73.53	73.78	89.689	7,253.87	-745.19	658.97	511.58	147.40	4.471	
17,500.00	9,700.98	17,384.85	9,734.00	74.30	74.55	89.689	7,353.87	-745.74	658.98	510.05	148.93	4.425	
17,600.00	9,700.62	17,484.85	9,734.00	75.07	75.32	89.689	7,453.86	-746.28	658.99	508.53	150.47	4.380	
17,700.00	9,700.26	17,584.85	9,734.00	75.84	76.09	89.689	7,553.86	-746.82	659.01	507.00	152.01	4.335	
17,800.00	9,699.91	17,684.85	9,734.00	76.61	76.86	89.689	7,653.86	-747.36	659.02	505.46	153.56	4.292	
17,900.00	9,699.55	17,784.85	9,734.00	77.39	77.64	89.689	7,753.86	-747.91	659.03	503.93	155.11	4.249	
18,000.00	9,699.19	17,884.85	9,734.00	78.16	78.42	89.689	7,853.86	-748.45	659.05	502.38	156.66	4.207	
18,100.00	9,698.83	17,984.85	9,734.00	78.94	79.20	89.689	7,953.85	-748.99	659.06	500.84	158.22	4.165	
18,200.00	9,698.48	18,084.85	9,734.00	79.72	79.98	89.689	8,053.85	-749.54	659.07	499.29	159.78	4.125	
18,300.00	9,698.12	18,184.85	9,734.00	80.51	80.77	89.689	8,153.85	-750.08	659.09	497.74	161.34	4.085	
18,400.00	9,697.76	18,284.85	9,734.00	81.29	81.55	89.689	8,253.85	-750.62	659.10	496.19	162.91	4.046	
18,500.00	9,697.41	18,384.84	9,734.00	82.08	82.34	89.689	8,353.85	-751.16	659.11	494.63	164.48	4.007	
18,600.00	9,697.05	18,484.84	9,734.00	82.86	83.13	89.689	8,453.84	-751.71	659.13	493.07	166.06	3.969	
18,700.00	9,696.69	18,584.84	9,734.00	83.65	83.92	89.689	8,553.84	-752.25	659.14	491.51	167.63	3.932	
18,800.00	9,696.33	18,684.84	9,734.00	84.44	84.71	89.689	8,653.84	-752.79	659.16	489.94	169.21	3.895	
18,900.00	9,695.98	18,784.84	9,734.00	85.24	85.51	89.689	8,753.84	-753.34	659.17	488.37	170.80	3.859	
19,000.00	9,695.62	18,884.84	9,734.00	86.03	86.30	89.689	8,853.83	-753.88	659.19	486.80	172.38	3.824	
19,100.00	9,695.26	18,984.84	9,734.00	86.82	87.10	89.689	8,953.83	-754.42	659.20	485.23	173.97	3.789	
19,200.00	9,694.91	19,084.84	9,734.00	87.62	87.89	89.689	9,053.83	-754.96	659.22	483.66	175.56	3.755	
19,300.00	9,694.55	19,184.84	9,734.00	88.42	88.69	89.689	9,153.83	-755.51	659.23	482.08	177.15	3.721	
19,400.00	9,694.19	19,284.84	9,734.00	89.22	89.49	89.689	9,253.83	-756.05	659.25	480.50	178.75	3.688	
19,500.00	9,693.83	19,384.84	9,734.00	90.02	90.29	89.689	9,353.82	-756.59	659.26	478.92	180.35	3.656	
19,600.00	9,693.48	19,484.84	9,734.00	90.82	91.10	89.689	9,453.82	-757.14	659.28	477.33	181.95	3.623	
19,700.00	9,693.12	19,584.84	9,734.00	91.62	91.90	89.689	9,553.82	-757.68	659.30	475.74	183.55	3.592	
19,800.00	9,692.76	19,684.84	9,734.00	92.43	92.71	89.689	9,653.82	-758.22	659.31	474.16	185.16	3.561	
19,900.00	9,692.40	19,784.84	9,734.00	93.23	93.51	89.689	9,753.82	-758.76	659.33	472.57	186.76	3.530	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Offset Design: Double Stamp W2-1 (111H,115H,121H,125H) - Double Stamp Fed Com 125H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,000.00	9,692.05	19,884.84	9,734.00	94.04	94.32	89.689	9,853.81	-759.31	659.35	470.97	188.37	3.500	
20,100.00	9,691.69	19,984.83	9,734.00	94.84	95.13	89.689	9,953.81	-759.85	659.36	469.38	189.98	3.471	
20,150.35	9,691.51	20,035.18	9,734.00	95.25	95.53	89.689	10,004.16	-760.12	659.37	468.58	190.79	3.456 SF	

CIVITAS

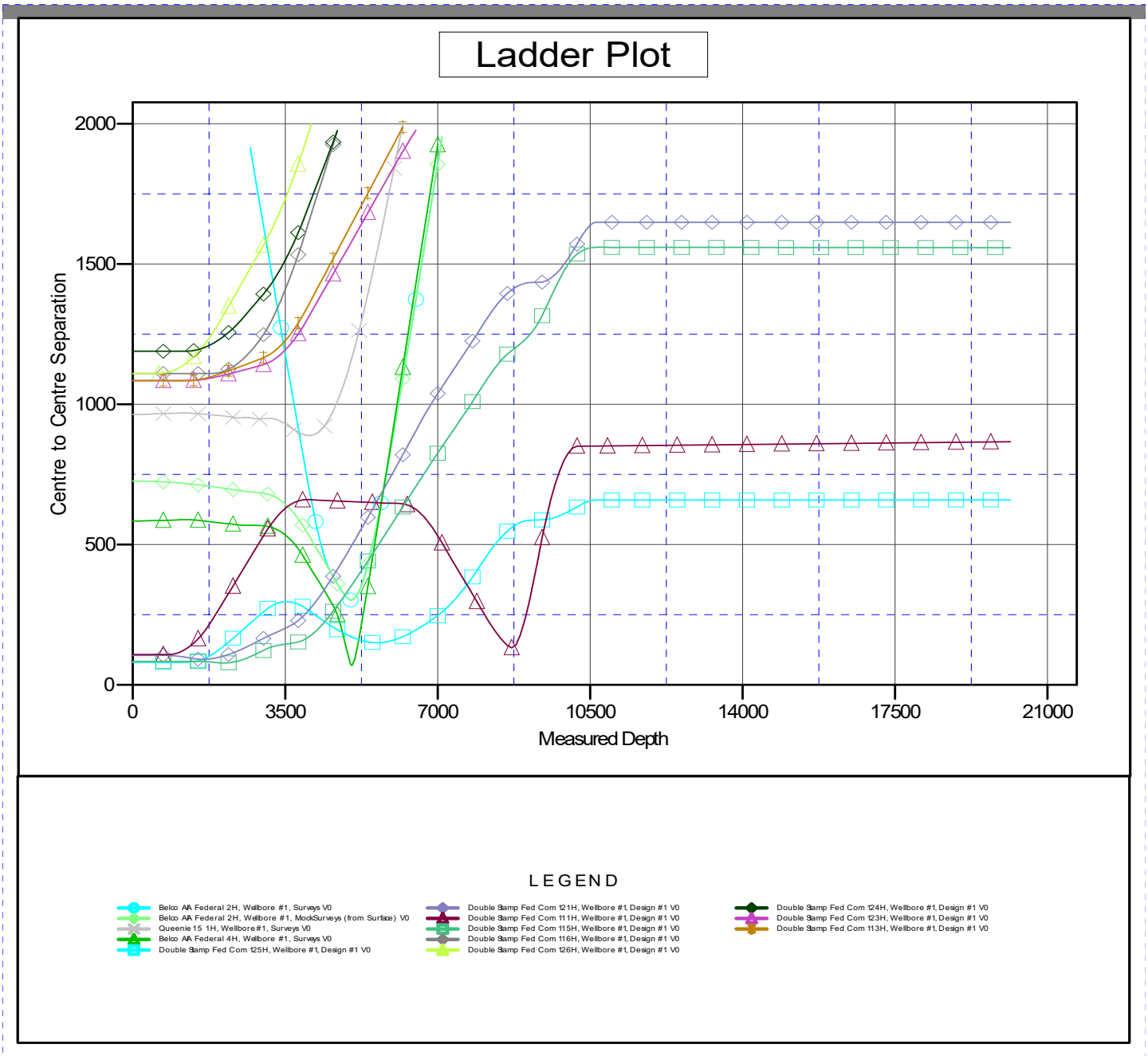
MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 3557.50usft (26.5' KB)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Double Stamp Fed Com 122H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.319°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

CIVITAS

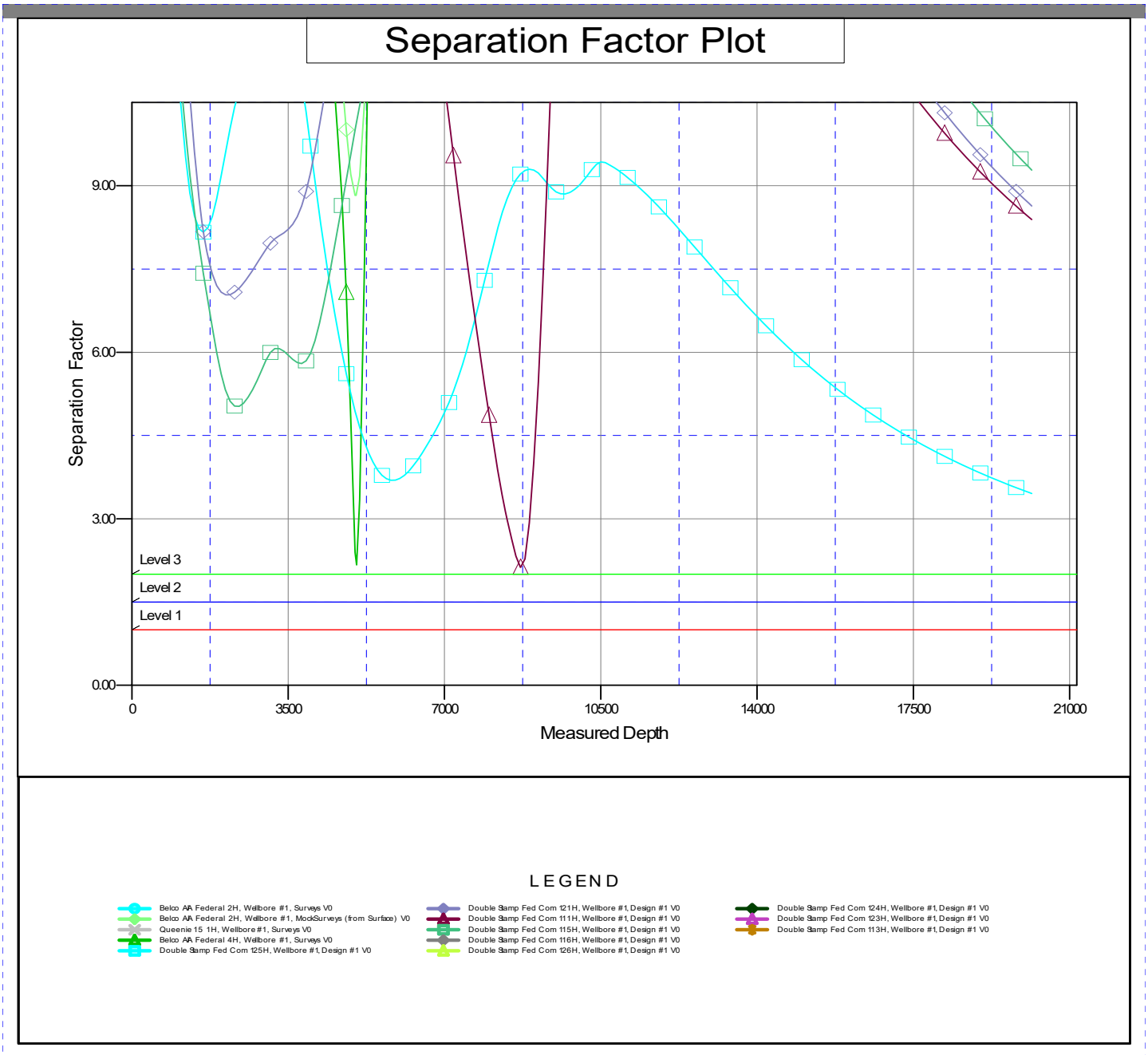
MS Directional
Anticollision Report

MS Directional

Company:	Civitas Permian Operating, LLC	**Local Co-ordinate Reference:**	Well Double Stamp Fed Com 122H
Project:	Lea County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3557.50usft (26.5' KB)
Reference Site:	Double Stamp Project	**MD Reference:**	WELL @ 3557.50usft (26.5' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Double Stamp Fed Com 122H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	TRG_EDMConroe
Reference Design:	Design #0.0	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 3557.50usft (26.5' KB)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Double Stamp Fed Com 122H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.319°



C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-54002	53560	SALT LAKE; BONE SPRING

Property Code	Property Name	Well Number
336572	DOUBLE STAMP FED COM	122H

OGRID No.	Operator Name	Ground Level Elevation
332195	CIVITAS PERMIAN OPERATING, LLC	3531'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	14	20-S	32-E	-	549' S	1694' W	N 32.5674378	W 103.7399690	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	11	20-S	32-E	-	5' N	331' W	N 32.5949469	W 103.7443922	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
640.00	-	-	-	-

Order Numbers: -

Well Setbacks are under Common Ownership: ☐ Yes ☐ No

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	14	20-S	32-E	-	50' S	331' W	N 32.5660745	W 103.7443944	LEA

First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	14	20-S	32-E	-	100' S	331' W	N 32.5662120	W 103.7443944	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	11	20-S	32-E	-	100' N	331' W	N 32.5946858	W 103.7443923	LEA

Unitized Area or Area of Uniform Intrest	Spacing Unity Type	Ground Floor Elevation
-	☒ Horizontal ☐ Vertical	-

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

01/07/2025

Signature Date

Nathan Bennett

Print Name

nbennett@civiresources.com

E-mail Address

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

1/7/2025 11:06:14 AM

Signature and Seal of Professional Surveyor Date

Certificate Number

Date of Survey: 08/11/2022

S:\SURVEY\CIVIT\AS\DOUBLE_STAMP_UNIT\FINAL_PRODUCTS\LO_DOUBLE_STAMP_FED_COM_122H_C102_REV4.dwg BRADLEY /LES 1/7/2025 11:09 AM

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled

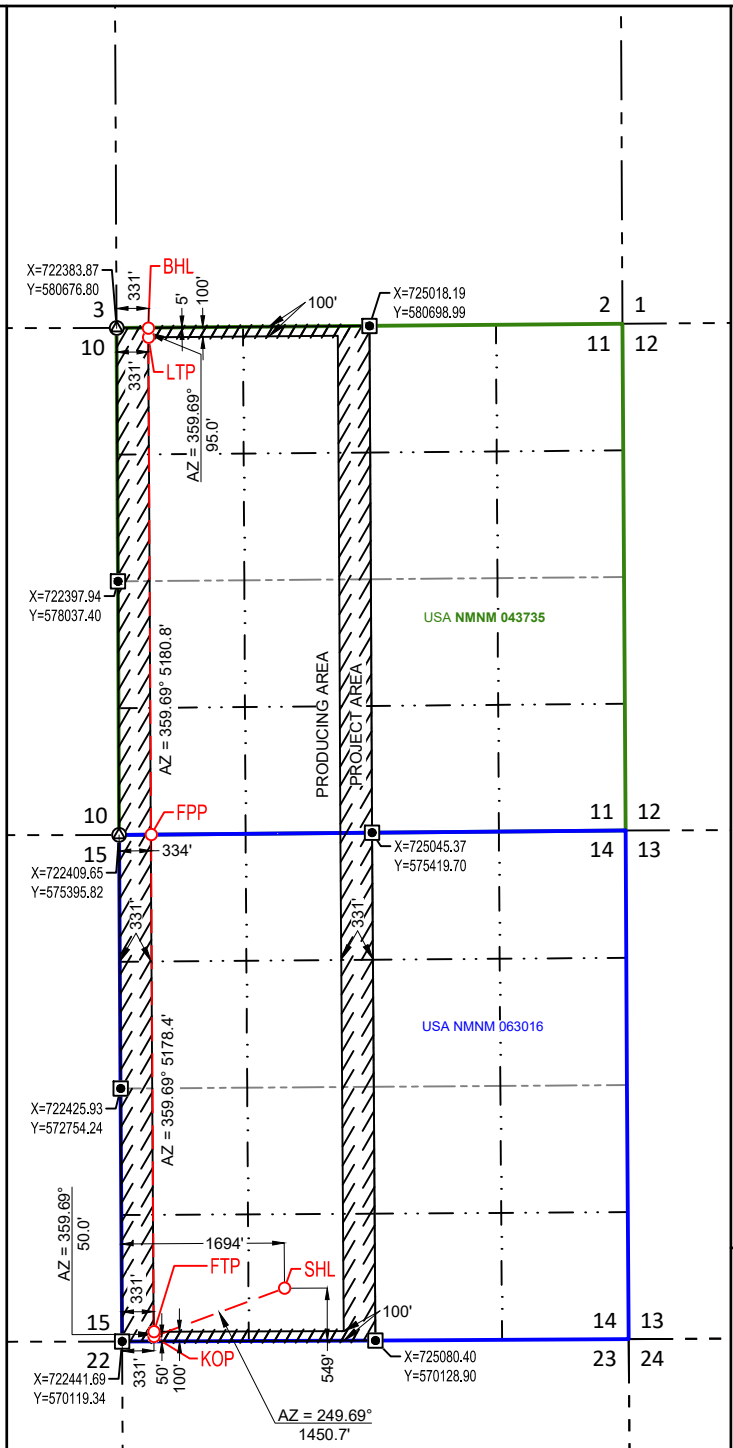
Property Name and Well Number

DOUBLE STAMP FED COM 122H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=724133 Y=570674
LAT.: N 32.5674378
LONG.: W 103.7399690
NAD 1927
X=682953 Y=570612
LAT.: N 32.5673162
LONG.: W 103.7394728
549' FSL 1694' FWL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=722772 Y=570171
LAT.: N 32.5660745
LONG.: W 103.7443944
NAD 1927
X=681592 Y=570108
LAT.: N 32.5659530
LONG.: W 103.7438981
50' FSL 331' FWL

FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=722772 Y=570221
LAT.: N 32.5662120
LONG.: W 103.7443944
NAD 1927
X=681592 Y=570158
LAT.: N 32.5660904
LONG.: W 103.7438981
100' FSL 331' FWL



FED PERF. POINT (FPP)
NEW MEXICO EAST
NAD 1983
X=722744 Y=575399
LAT.: N 32.5804456
LONG.: W 103.7443933
NAD 1927
X=681563 Y=575337
LAT.: N 32.5803241
LONG.: W 103.7438965
0' FSL 334' FWL

LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=722715 Y=580580
LAT.: N 32.5946858
LONG.: W 103.7443923
NAD 1927
X=681535 Y=580517
LAT.: N 32.5945644
LONG.: W 103.7438949
100' FNL 331' FWL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=722715 Y=580675
LAT.: N 32.5949469
LONG.: W 103.7443922
NAD 1927
X=681535 Y=580612
LAT.: N 32.5948255
LONG.: W 103.7438948
5' FNL 331' FWL

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

08/11/2022
Date of Survey
Signature and Seal of Professional Surveyor:

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

S:\SURVEYOR\TIAS\DOUBLE_STAMP_UNIT\FINAL_PRODUCTS\LO_DOUBLE_STAMP_FED_COM_122H_C102_REV4.dwg BRADLEY.ILLES 1/7/2025 11:06 AM

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 425412

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 425412
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	1/30/2025
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/30/2025